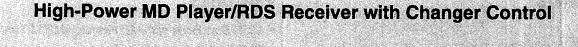
# Service Manua

CQ-MR335LEN





# Specifications\*

General

Power supply

: 12V DC (11V-16V)

Test Voltage 14.4V,

Negative ground

**Tone Controls** 

: Bass; ±12 dB at 100Hz

: Treble: ±12 dB at 10kHz

**Current consumption** 

: Less than 2.5 A

(MD mode, 0.5W 4-Speaker)

Maximum Power Output

:  $40W \times 4$  (at  $4\Omega$ )

**Power Output** 

: 20W  $\times$  4 (DIN45 324, at  $4\Omega$ )

Speaker Impedance

: 4 - 8Ω

**FM Stereo Radio** 

Frequency range

: 87.5 - 108MHz

Useable sensitivity

: 6 dB/µV (S/N 30 dB)

Stereo separation

: 35 dB (at 1kHz)

**MW Radio** 

Frequency range

: 531 - 1,602kHz

Useable sensitivity

: 28 dB/µV (S/N 20 dB)

**LW Radio** 

Frequency range

: 153 - 279kHz

Useable sensitivity

: 32 dB/µV (S/N 20 dB)

**MD Player** 

Channel

: 2 channels

**DA Conversion** 

: 16-bit linear

Frequency response

: 5 to 20,000Hz

Signal to Noise ratio

Wow and flutter

: 90 dB (1kHz)

: Below measurable limits

**Dimensions\*\*** (W $\times$ H $\times$ D) : 178 (W)  $\times$  50 (H)  $\times$  150 (D) mm

Weight\*\*

: 1.4 kg

- Specifications and the design are subject to possible modification without notice due to improvements.
- Dimensions and weight shown are approximate.
- Above specifications comply with EIA standards.

anasonic

@1999 Matsushita Communication Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

(Recycled Paper)

# **↑** WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the products dealt with in this service information by anyone else could result in serious injury or death.

# **CONTENTS**

FEATURES		. 1
REPLACING THE FUSE	•••••	. 1
MAINTENANCE	•••••	. 1
RADIO AND MD DECK ALIGNMENT	•••••	. 1
DIMENSIONS		. 1
< OPERATING INSTRUCTIONS>		
Precautions (ISO Connector)	<b></b>	. 2
Laser Products		. 2
Power and Sound Controls		. 3
Radio Basics		. 4
RDS (Radio Data System) Reception	4 to	o 6
Mini Disc Player Basics	6	3, 7
CD Changer Basics	•••••	. 7
Remote Control Basics	•••••	. 8
Anti-Theft System		
Installation		
Electrical Connection		
Speaker Connection		
Notes on Mini Discs (MD)		10
WIRING CONNECTION	•••••	11
BLOCK DIAGRAM	12,	13
WIRING DIAGRAM (Display Block)		14
WIRING DIAGRAM (Main / MD Interface Block)		
WIRING DIAGRAM (MD Servo Block)		
WIRING DIAGRAM (Front / Eject SW Block)		
SCHEMATIC DIAGRAM (Display / Front / Eject SW Bloom		
SCHEMATIC DIAGRAM (Main / MD Interface Block	•	
SCHEMATIC DIAGRAM (MD Servo Block)		
TERMINALS DESCRIPTION		
PACKAGE AND IC BLOCK DIAGRAM		
REPLACEMENT PARTS LIST		
EXPLODED VIEW (Unit)		
EXPLODED VIEW (MD Deck)	•••••	35

# **FEATURES**

- 1DIN Size Body with MD Player, AM/FM Tuner, Power AMP (40W×4) and CD Changer Control Function
- PRE Output Connector Function
- Detachable Face Plate Security
- SHDB (Super High Definition Bass) Function

# REPLACING THE FUSE

Be sure to use a fuse of the specified rating (15A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit.

# MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft colth for routine exterior cleaning. Never use benzine, thinner, or other solvent.

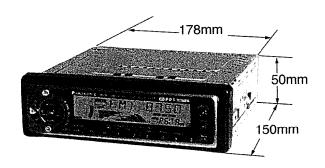
# RADIO AND MD DECK ALIGNMENT RADIO BLOCK

Do not align the AM and FM package block is necessary, it will be supplied already alined at the factory.

# MD DECK BLOCK

This models has no servo alignment points because microcomputer controls the servo circuit.

# DIMENSIONS



# **Operating Instructions**

- Label Indications and Their Locations
- Warnetiketten und deren Anbringungsort
- Indications portées les étiquettes et emplacement
- ◆ APPAREIL À LASER DE CLASSE 1
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

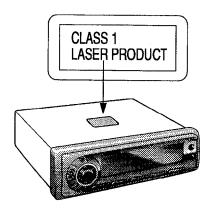
· Aanduiding van de labels en hun plaats

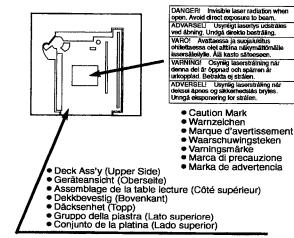
Varningsskyltarna, och deras placering

- Indicazioni delle etichette e le loro posizioni
- Indicaciones de las etiquetas y su ubicación

VORSICHT!

UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET IST, NICHT DEM LASERSTRAHL AUSSETZEN.





3

# **Precautions (ISO Connector)**

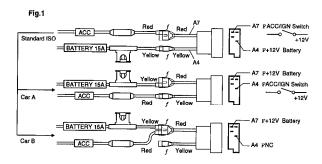
- Wiring for the power connector conforms to the arrangement of standard ISO connectors In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adapted.

### Table 1

Fig. 1 Pin No.	A4	A7		
Car for standard ISO	Battery (permanent 12 V supply)	"IGN" or "ACC" (switched 12 V supply)		
In case of Car type A	"IGN" or "ACC" (switched 12 V supply)	Battery (permanent 12 V supply		
In case of Car type B	No Connection	Battery (permanent 12 V supply)		

- Make sure the ISO connector arrangement in your car side is as same as the standard ISO.
- (Table 1, Fig. 1)

  In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint ( f) as shown in Fig.1.



 After fix the connections, the part ( f) should be insulated with electrical tape to keep away from unit damage.

Panasonic welcomes you to their constantly growing family of electronic products owners. We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring your many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

# **Precautions**

Volume Level
For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Car Washing
To avoid electrical shorts which may cause fire, or other damage, do not expose this equipment (including the speakers and MDs) to water or excessive moisture.

### Car Ventilation

If your car is parked for several hours in direct sun-light, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

Power Supply
This equipment is designed to be used in a car having 12-Volt negative ground battery system.

Disc Mechanism
Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

Service
This unit is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

The preset memory is cleared to return to the origi-nal factory setting when the power connector or bat-tery is disconnected.

# **Laser Products**

Caurion:
This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radia-

### Laser products:

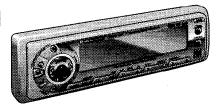
Wave Length Laser Power 790 nm

No hazardous radiation is emitted with safety protection.

Do not take apart this unit or attempt to make any changes yourself.
This unit is a very intricate device that uses a leser pickup to retrieve information from the surface of mini
discs. The leser is carefully shielded so that its rays remain inside the cabinet.

ore, never try to disassemble the player or after any of its parts since you may be exposed to lase rays and dangerous voltages.

# Power and Sound **Controls**





### **Power**

Turn the key in the ignition until the accessory indicator lights.

Press PWR to switch on the power.

Press PWR again to switch off the power, When switching off the power, the panel removal alarm sounds.

(See page 35 about the panel removal alarm.)

Note: When power is switched on for the first time, demonstration is displayed. To cancel this display, press D(DISP/CT).



### Volume

Press VOL∧ or VOLV to Increase or decrease the volume.



Press VOL \( \sigma\) or VOL \( \sigma\) for more than 0.5 second to sequentially change numeric levels on the display



### Tone Enhancement

Press LOUD to enhance bass and treble tones when listening at low or medium volume.



· Press LOUD again to cancel.

Note: This unit is equipped with anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened with sudden loud sound.
This system operates as follows. When PWR is list pressed to switch on, the volume level is low. After that, the volume level gradually returns to the level as the same as the one before turning off.
Anti-volume-blast circuit is not effective when the volume level is lower than position 20 at the display.

### Attenuator

Press ATT to decrease the volume to about 1/10 of the previous level.

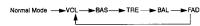


Press ATT again to cancel



# **Changing Audio Modes**

Press SEL to change the audio mode as follows.





# Bass and Treble

Press SEL to select the BASS (TREBLE) mode. Press VOL^ or VOL✓ to increase or decrease the bass (treble) response.

=12 to ±12	-12 to +12
365+ 363	[PE+ 30]



### **Balance**

### **Fader**

Press SEL to select the FADER mode. Press VOL∧ or VOL∨ to shift the sound volume to the front or rear speakers.

FR3 F 3	FR3 [NI	FRI F 3
1 to 15	Fader Center	1 to 15

Note: When an audio mode (BAS/TRE/BAL/FAD) is selected but no operation is made within 5 seconds (2 seconds at VOL mode), the display will return to the normal operation mode.

12

# Power and Sound Controls continued

# **Sound Design Memory**

audio mode (except for VOL and ATT) can be memorized and recalled.





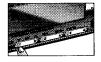


# **Sound Design Memory Input**

To preset a favorite level setting, press and hold the corresponding preset memory button (1 to 4) in sound design memory mode until the display blinks.

SOUND (

Preset button 5 and 6 are set as follows and they can not be changed. 



### **Sound Design Memory Call**

When a desired preset memory button is pressed in sound design memory mode, the corresponding sound setting is recalled.

The selected preset number is displayed.



# **Canceling of Sound Design Memory Mode**

Press SDM to changed to the normal mode

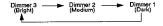
Note: When the sound design memory mode is selected but no operation is made within 5 seconds, the mode will return to the previous mode.

### **Display Controls**



# **Dimmer Switching** Press and hold (LEVEL/DIM) for more than 1 second to change the

brightness of the screen as follows.





# **Level Meter Display Switching**

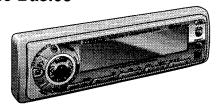
Press (LEVEL/DIM) to change the level meter display as follows.



15

13

# **Radio Basics**





# To change to Tuner Mode

Press MODE to change the operation mode as follows. (When a disc is inserted) Tuner CD Changer Control





# Selecting a Band

Press BAND to select the bands as follows.
The stereo indicator lights if the station is broadcasting in stereo





# **Manual Tuning**

Press < or > to move to a lower or higher frequency.

⇒FM: 8150

Press and hold < or > to move to a lower or higher frequency rapidly



# Seek Tuning

Press and hold < or > for more than 0 automatically stops at the next station ore than 0.5 second, then release. The radio

# Radio Basics continued

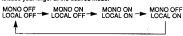
### MONO/LOCAL Selection

- Much Interference is reduced during weak FM stereo broadcasts when MONO is on. (Only for FM mode)
- Searching stops automatically at a strong wave station only when LOCAL is on.



① During FM broadcasts

Press and hold PTY(MONO/LOC) to change the mode as follows. Release your finger at the desired mode.





② During AM broadcasts
Press PTY(MONO/LOC) to switch the LOCAL mode as follows.

LOCAL OFF - LOCAL ON

# **Preset Station Setting**

FM1, FM2, FM3 and AM (LW/MW) can save ma лит 6 stations each in their preset station memories.



### Manual Station Preset

① Press BAND to select a desired band. ② Use manual or seek tuning to find a station that you want to save into

the memory.

③ Press and hold one of the preset buttons 1 to 6 for more than 2 seconds until the display blinks once.



-FM1 8750 Preset Channel Indicator

Note: You can change the memory setting by repeating the above pro-



# **Tuning in a Preset Station**

Press any of the buttons 1 to 6 to tune in the station preset.



### **Auto Station Preset**

Select a band, press and hold BAND(AUTO+P) for more than 2 sec-

- The 6 strongest available stations will be automatically saved in the
- memory on the preset buttons 1 to 6.

  Once saved, the preset stations are sequentially scanned for 5 sec-
- · Press the appropriate preset button for the station you want to listen



Caution: For salety reasons, do not attempt to program white driving

### 17

# **RDS (Radio Data System) Reception**

Many FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)
When receiving condition becomes poor, an RDS station with the same program will be automatically

### EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are expanded. TA: Traffic information from not only the station

- now tuned in to but also other stations of the
- same network can be received.

  AF: The frequency list of the RDS stations preset by received EON data is updated.

# PS (Program Service Name) When an RDS station is received, the RDS indica-

tor lights and automatically displays the name of that station instead of the frequency. When D (DISP/CT) is pressed during PS display, the frequency is displayed for 3 seconds, then PS displayed for 3 seconds for 3 second

PI (Program Identification)
If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune

# PTY (Program Type)

Program type identification signal Example: News, rock, classical music, etc.

### TA (Traffic Announcement)

IA (Iramic Announcement)
When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA ON is set, FM traffic information automatically interrupts your listening to a MD, CD changer until it ends, then you will listen again to whatever you have been listening to.

Best Station Research If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

The AT, Best Station Research, PI Seek functions will be as follows:

REG ON: The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.

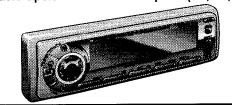
REG OFF: The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

### WHAT PROVIDES EON CAPABILITIES

EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick

Note: When you're in AF ON mode, auto preset memory only works for RDS station. When in TA ON mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and switch to TA off in advance.

# RDS (Radio Data System) Reception continued A. Basic Operation in RDS Reception (PS, AF, CT, PI)





### **RDS Reception**

Press AF when receiving a station in the FM1, FM2 or FM3 band.

The AF mode can be set on or off in each FM band.

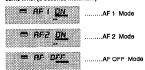
= 33C <u>R4</u>

- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
   Select AF OFF if the AF network of an RDS station is not necessary.



# To Change AF Mode

Press AF to change AF ON and activate Best Station Research at the same time. (3 seconds maximum)



- AF1 has a low level of AF operating sensitivity in urban areas.
  Therefore, AF dose not frequently operate even when sensitivity is temporarily lowered between skyscrapers, for example.

   AF2 is for suburban areas with a higher level of sensitivity than AF1.

For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (page 16 to 18).



# RDS Seek Tuning (PI seek)

The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station now tuned in to.



PI Seek: If Best Station Research fails in selecting the best station, the PI seek function operates to automatically tune in to the same program

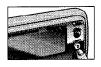
# Region (REG) Switching

Press and hold AF(REG) for more than 2 seconds in AF mode to alternately select REG ON and REG OFF.



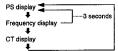
If you wish to stay with the same program, keep REG ON. If you keep REG OFF, there is a higher possibility of returning to an AF station in

better receiving condition.
The relationship of the PI seek function with REG ON and REG OFF is as described above.



### Changing Display

Press D(DISP/CT) to change the display.
(Frequency display continues for only 3 seconds, returning to PS display after that.)



# Clock Time (CT) System

The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" is displayed in areas where no CT service is available.



# **== CT I₽34**

**Clock Display** Press D(DISP/CT) to indicate the clock display.

### 20

# RDS (Radio Data System) Reception continued



### **Initial Time Setting**

- Press BAND to change to AM mode.

  ① Press D(DISP/CT), "NO CT" is displayed.
  ② Press and hold D(DISP/CT) again for more than 2 seconds, "hours" blinks indicating the time setting mode is activated.
  ③ To set hours, press < or >.

  Hold < or > change numbers rapidly.
  ④ Press D(DISP/CT) again for minutes setting.
  ⑤ To set minutes, press < or >.
  ⑤ After setting the time, press D(DISP/CT).

Notes:

If CT display is kept on, if remains on even if PWR and ACC are tuned off and back on again.

In other modes, press D(DISP/CT) to get RDS CT-service.

**B. TP Reception** 



# Select traffic information (TA on) mode

Press TA to switch on and keep it there when you wish to listen to traffic information. Press TA to switch off when no traffic information is needed.





Volume Setting (Only for MD/CD+C TA on mode)
Adjust the volume as desired by pressing VOL^ or VOLV while receiving traffic announcement. (TA)

After volume for traffic announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that not traffic information will be received at the preceding TA volume which may be higher or lower than normal volume.

Normal volume can be changed up to 5 levels upward or downward.

If the volume level is over 40 or less than 0, any further change will not



# When receiving a station other than TP station (including EON stations) A traffic information station is automatically searched for and the radio automatically stops tuning at the next available TP station.

EON Capabilliles:
EON lats the radio take advantage of much more RDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an atternative frequency for the same station, or another station carrying the same program, when such exists. EON also keeps track of locally available TP station.



Press TA





# **Auto TP Station Preset**

TP Seek Tuning

Press and hold BAND(AUTO+P) for more than 2 seconds. The six strongest available TP stations are automatically saved in the memory on the preset button 1 to 6.

Once saved, the preset stations are sequentially scanned for 5 seconds

Press < or > for more than 0.5 second, then release. The radio automatically stops at the next available TP station.

# Tuning in a TP station preset

Press any of the preset buttons 1 to 6 that you want to listen to. And then Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) liets, if reception is weak.





# Muting TA on

Press and hold TA for more than 2 seconds to light "TA on". Then Traffic Announcement (TA) function is activated to operate, allowing you to listen to only Traffic Program whenever it is available.

Muting TA on canceling (Muting TA on → TA on)

Press TA again.

Press VOL^ to increase the volume level.

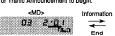
### TP Auto Search

If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically



### MD/CD•C TA on

Press TA during MD, CD changer mode. TA on mode is selected while listening to the source in that mode, walt for Traffic Announcement to begin.







# Switching to TA off Mode

- Select either one of the following steps.
- Press TA when TA is on.
   Press and hold TA for more than 2 seconds when Muting TA is on. Press TA when MD/CD•C TA is on.

21

# RDS (Radio Data System) Reception continued

# C. PTY Reception



# Switching to PTY mode

Press PTY to changed to the PTY display mode, and the PTY of the broadcast now received is displayed.



"NO PTY" is displayed if there is no corresponding program type.





# **Changing PTY Display Language**

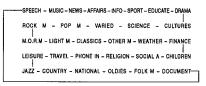
Press D(DISP/CT) in PTY mode to alternate the language between English and Swedish.





# **Program Type Selection**

Press < or > to select the program type as follows



When a desired selection has been made, press BAND. Then automatic seek will start to tune in to the station broadcasting the selected

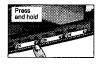
Seek tuning does not operate as long as "NO PTY" is displayed.



TABLE of PTY CODE and Program Type
Press any of the preset button 1 to 6 that you want to desire the program type. Those buttons are already stored program types as follows. (Default setting)

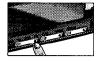
### <PRESET PTY>

Preset NO.	1	2	3	4	5	6
Program Type	NEWS	SPEECH	SPORT	POP. MUSIC	CLASSICS	MUSIC
Display	××× 3	SPEECH.	₩W.	POP ≰.	crunista	mei,
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORT	POP M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



# **Program Type Preset**

Press and hold one of the buttons 1 to 6 for more than 2 seconds to pre-set the desired program type selection in that button.



# **Tuning in a PTY Preset Station**

Press any of the preset buttons 1 to 6 that you want to listen to

24

# RDS (Radio Data System) Reception continued



### Searching for PTY

① Select a desired station from among those preset in the preset number buttons 1 to 6. Then, the preset PTY and that preset number are



- 2 While the desired type from 6 presets is displayed, take either of the
- following two steps.

  A) Press the same preset button again.

B) Press BAND.

If the desired PTY station is available, it is directly received. If it is not, "NO PTY blinks and the radio returns to the station that was received before the search.



Press the same button again to cancel



# **Canceling of PTY Mode**

Press PTY to cancel.

The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

### **Emergency Announcement** Reception

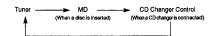
(Some areas are not covered by emergency announcement service.)
If an emergency announcement is broadcast during MD/CD changer
mode, the radio is automatically selected to receive the emergency announcement, "ALARM" blinks





### **Mode Selection**

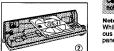
While a disc is inserted, press MODE to change the operation mode as





# To start the MD Player

Press OPEN to open the front panel.
 With the label side up, insert the disc and playback starts automatically. Close the front panel manually.

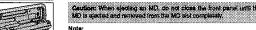


Note: While inserting a MD, the volume decrease to about 1/10 of the previous level. And the volume is back to the previous level when the front panel is closed completely.

Note: While a disc is inserted, " indicator will light.



# Stopping and Ejecting a Disc



Note:
While ejecting a MD, the volume decreases to about 1/10 of the previous level. And the volume is back to the previous level when the front panel is closed completely.



### Selecting a Track

Press ► once to go to the next track.
 Press ◄ once to play from the beginning of the track you are listening to. Press two to play the previous track.
 Press repeatedly to skip the desired number of tracks.

# Mini Disc Player Basics continued



# Searching a Track

- Press and hold 
  or 
  to more than 0.5 second to activate reverse through or fast forward a track.
  Release 
  or 
  to resume the normal MD play.

# Repeating a Track

. Press 4(REPEAT) to repeat the current selection.

- 10'5 ED -

Press 4(REPEAT) again to cancel.
The current selection will continue to repeat until you press 4(REPEAT) again.



### Random Selection

Press 5(RANDOM). A random selection of music is played from all available tracks.

- 03 2'0:

Press 5(RANDOM) again to cancel.

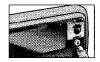


### Scanning a Disc

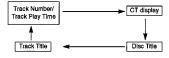
Press 3(SCAN). The display will blink and the first 10 seconds of each track on the disc play in order.

D3 0.64

• Press 3(SCAN) again to cancel.



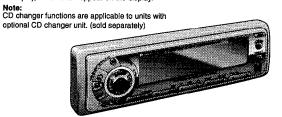
# Changing the Display Press D(DISP/CT) to switch the display as follows.



When D(DISP/CT) is pressed for more than 2 seconds while the Track Title or Disc Title appears on the display, the Title display scroll can be switched on or off. (**Default**: the Title display scroll on)

# **CD Changer Basics**

When the unit is connected with a CD text recognizable CD changer (CX-DP9061EN, for example), CD text can appear on the display.





# **Mode Selection**

While a disc is inserted, press MODE to change the operation mode as





# To start the CD Changer

While CD changer is connected, press MODE to change into the CD changer mode and playback starts automatically.

EJE I-UI.



# Selecting a Disc

Press 1(VDISC) or 2(DISCA) to select discs in descending or ascending order

CJC 9-01

Then, the selected disc will start to play from the first track.



# Selecting a Track

- Press Pronce to go to the next track.
  Press once to play from the beginning of the current track. Press twice to play the pravious track.
  Press repeatedly to skip the desired number of tracks.



# Searching a Track

- Press and hold 
  or 
  to rmore than 0.5 second to activate reverse through or fast forward a track.
  Release 
  or 
  to resume the normal CD play.

# **CD Changer Basics continued**



# Repeating a Track

Press 4(REPEAT) to repeat the current selection.

EDE 3-01

• Press 4(REPEAT) again to cancel.



# **Random Selection**

Press 5(RANDOM). A random selection of music is played from all available tracks on all discs in the magazine.

-- E3E 3-0 i•

• Press 5(RANDOM) again to cancel.

Selecting a disc by pressing VDISC or DISC/\(\) has priority over the Random Play mode. The Random Play mode will stop and the disc select function will operate once the 1(\(\nabla\)DISC\(\) or 2(DISC/\(\nabla\)) is pressed.

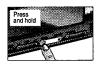


### **Scanning Tracks**

Press 3(SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.



Press 3(SCAN) again to cancel.



# **Scanning Discs**

Press and hold 3(SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.



• Press 3(SCAN) again to cancel.

# Changing the Display

Press D(DISP/CT) to change the display as follows



Disc Title Example

CELINE J

Track Title Example

JE CROIS

When D(DISP/CT)|s pressed for more than 2 seconds while the Track Title or Disc Title appears on the display, the Title display scroll can be switched on or off. (Default: the Title display scroll on)

- Notes:

  Track litle or disc title appears on the display only when the unit is connected to a CD changer that can recognize CD text (CX-9061EN, for example).

  "NO TITLE" appears on the display if a disc which does not support the text display has been loaded.

# **Error Display Messages for MD Player/CD Changer**

E !	Displays when the mini disc or compact disc is dirty. In case of MD, the mini disc is ejected automatically. In case of CD changer, the compact disc is skipped and the next disc is selected.
62	Displays when the mini disc or compact disc is scratched. The disc is ejected automatically.
E3	Displays when the mini disc or compact disc stops operating for some reason. Please eject the disc. If the error message E3 is still displayed, please turn off the car engine (ACC off) and remove the fuse from yellow lead for 1 minute. Then rein- stall the fuse.
0000	Displays when there is no compact disc in the magazine. (This message is only for CDs.)

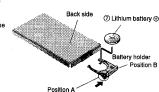
# **Remote Control Basics**

# **Battery Replacement:**

Remove the battery holder.
Pull the holder by the Position B while pushing Position A in the direction indicated by t

Replace the battery.
 Set a new battery properly with (+)side up as illustrated.

3. Insert the battery holder.
Push in the holder to the original position.



### **Battery Notes: -**

Old battery must immediately be removed and disposed.

Battery information:

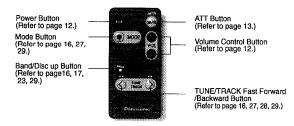
Designated Battery: Panasonic Lithium Battery (CR2025)

Battery Life: about 6 months with normal use (at normal room temperature)

improper use of batteries may cause overheating, exclosion or spittion, resulting in injury or fire. Battery leskage may cause demage to the unit

- Do not disassemble or short the batteries. Do not throw the batteries into a fire.
   To avoid the risk of accidents, keep the batteries out of reach of children.

# Names of Main Controls: -

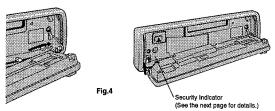


32

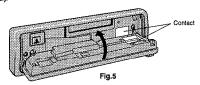
# **Anti-Theft System continued**

### To install the Removable Face Plate

The either of the right or left hole in the face plate over the main unit's pin, and fit it over on the other side while pushing it.



 After fitting the face plate holes, move the face plate up and down been fitted securely. a few times to make sure that it has



③ Close the front panel and press the right side of face plate until "click" is heard.

- To Bellow removing the removable face plate, make sure the power is off.

  This removable fine plate is not water-good. Do not argour it is water or expessive moisture.

  This removable fine plate is not water-good. Do not argour it is not expessive moisture.

  Do not removable the removable face plate write utiling your car.

  Do not place the removable sace plate on the described or nearby areas where the temperature rises.

- to high levels.

  B. Do not south the contacts on the removable face plate or on the main unit, since this may result in poor selection contacts.

  B. Id not south the contacts.

  B. If did to other to sign substances get on the contacts, wipe them with clean and thy didth.

  When the food panel is opened, do not know it down and do not put anything on it because these may result in damage to the unit.

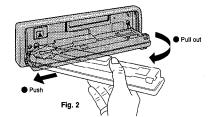
# **Anti-Theft System**

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

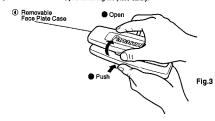
### To Remove the Removable Face Plate

Switch off the power.
 Press OPEN. The removable face plate will be opened.

3) Push the face plate to either the right or left, then pull it out toward yourself.



(a) As shown in Fig.3, gently push the lower side of the case and open its cover. Keep the removable face plate in the case. Then, you can bring the plate safely.



33

# **Security Indicator**

en the removable face plate is removed from the unit. (See Fig.4 on the previ

# **Activate Security Indicator**

Press and hold SEL for more than 2 seconds when the power is on. "LED ON" is displayed, and the security indicator turns on.

# (Default: The security indicator is on.)

To check whether the unit is set in the LED ON mode, make cure that the security indicator blinks when the removable face plate is removed.

Display Security Indicator Panel Removal Alarm LED ON Blinks ON ţ↓ (Press and hold SEL for more than 2 seconds.) LEI OFF OFF

# **Panel Removal Alarm**

This alarm sounds to warn you not to forget to remove the panel before leaving your car. This function is acti-vated when the security indicator is on.

# Installation

### Preparation

- Pelore Installation check the radio operation with antenna and speakers.

  Disconnect the cable from the negative (-) battery terminal (see caution below).

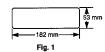
  Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more

For Installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

### In-dash Installation

### Installation Opening

in-dash installation can be done if the car's dash-board has an opening for this unit as shown in Fig.1. The car's dashboard should have a thick-ness of 4.5mm - 6mm in order to make the installa-



Installation Precautions
This equipment, if possible, should be installed by a professional installer.

- In case of difficulty, please consult your nearest authorized Panasonic Service Center.

  1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.

  2. Follow the electrical connection on page 39 carefully, or the unit may be damaged.

  3. Connect the power lead after other connections are made.

- Connect the power lead after other connections are made.
   Be sure to connect the YELOW lead to the positive terminal (+) of the battery or fuse block (BAT) terminal.
   Insulate all exposed wires to prevent short circuiting.
   Socure all loose writes after installing the unit.
   Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

### Supplied Hardwares

No.	tem	Diagram	Q'ty
0	Mounting Collar		1
2	Mounting Bolt (5 mme)	ø	1
3	Power Connector		1
•	Removable Face Plate Case		1

No.	Hem	Diagram	Q'ty
<b>⑤</b>	Remote Control Unit		1
(6)	Trim Plate		1
7	Lithium Battery	$\otimes$	1
8	ISO Antenna Adaptor	A20	1

38

# Installation continued

3. install Trim Plate 6.

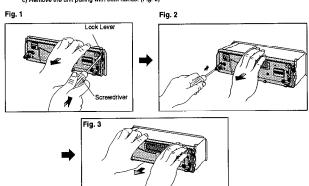


### To Remove the Unit

a) Remove the removable face plate. (See page 33.)
 b) Remove the Trim Plate (a) with a screwdriver as shown in the figure.

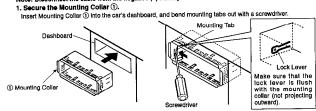


b) Pull out the unit white pushing the lock lever using Screwdriver. (Fig. 1, Fig. 2) c) Remove the unit pulling with both hands. (Fig. 3)



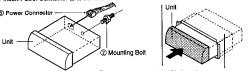
### Installation Procedures

Note: Disconnect the cable from the negative (-) battery terminal.



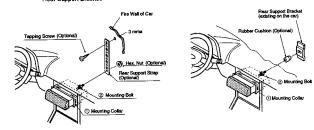
### 2. Secure the rear of the unit.

- a) Check the electrical connection by referring to this operating instructions.
  b) Connect the Mounting Bolt ② using a suitable wrench.
  c) Insert Power Connector ③ to the unit.



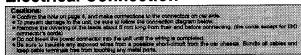
- d) Insert the unit into Mounting Collar ① and push it in until "click" is heard.
  e) Secure the rear of the unit to the car by either of the following two recom
- Using the Rear Support Strap (Optional)

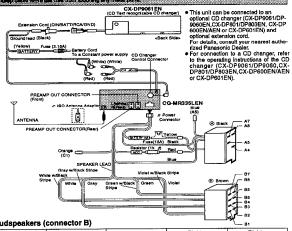
■ Using the Hear Support Strap (Optional)
Affix one end of the Rear Support Strap to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.
■ Using the Rubber Cushion (Optional)
(if there is an existing Rear Support Bracket on the Fire Wall of Car.)
Cover Mounting Bolt ② on the rear of the unit with Rubber Cushion, and mount it into the existing Rear Support Bracket. Rear Support Bracket.



### 37

# **Electrical Connection**





Loudspeakers (	connector B)	В1		
	Left +	Left -	Right +	Right -
Front	B5 (White)	B6 (White w/Black Stripe)	B3 (Gray)	B4 (Gray w/Black Stripe)
Rear	B7 (Green)	B8 (Green w/Black Stripe)	B1 (Violet)	B2 (Violet w/Black Stripe)

BATTERY LEAD (To Battery of Car) (Yelkow)
Connect to the "BAT" terminal on the fuse block of the car.
The power should be supplied continuously to the vellor
leads regardless of the on/off position of the ignition key.

MOTOR ANTENNA RELAY CONTROL LEAD (Blue) (To Motor Antenna) (Max. 500mA) This lead is not intended for use with switch a

POWER LEAD (Red)
Connect to the "radio" power line of the car or to the "IGN or "ACC" terminal of the fuse block.

GROUND LEAD (Black)
Connect to a well grounded metallic part of your car

TELEPHONE MUTE LEAD (Orange)
((fo are lelephone mute line)
TELEPHONE MUTE lead, if connected to the car lelephone
The telephone for Mute lead, if connected to the car lelephone
the speakers cannot be based while the telephone conversation is in progress.
Note: This lelephone mute lead is for connection only to the
radio mute line. Be sure to assortian this because it will not
work with other type of output system.

# **Speaker Connections**

- Cardioris:

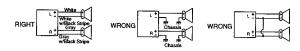
  1. Use supprounded speakers only.

  2. This speakers to be used with this unit should be able to handle more than 40W of alidic power. If an optional anyther is beautiful this unit should be able to handle the modifium autiput power of the applicant anyther is beautiful power. If an optional anyther is beautiful power of the amplitude the power of the amplitude the should be 4.5 of others if the improduce is too large or too enail, it affects the output and may cause damage to the speakers or this und.

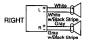
  4. Do not use 8-who type speaker system thering a common earth lead, haver connect the upsalar cord to the body of the car. This unit uses the ETCL cloud: so each speakers thould be connected separately using persistently one parallel with insulated doors.

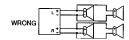
  5. The speaker cords and the power amplifier unit should be kept sway (about 50cm apart) from the enfertile and entire controlled suppressions or the correction diagram before constituty. Faiting to do so may cause damage to both unit and speakers.

- Unit will be damaged if speakers (Front, Rear) are not connected property.



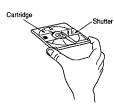
· Do not connect more than one speaker to one set of speaker leads.





# **Notes on Mini Disc**

How to Handle MDs
An MD is held in a cartridge to protect the MD
from foreign matter and fingerprints. Great care
must be taken in dealing with an MD in consideration of the following because a dirty or
deformed cartridge can cause malfunction or
sound quality deterioration.
• Never open the shutter of an MD cartridge to
avoid damaging to the cartridge.
• Never insert an MD cartridge if a label on it is
about to come off. Otherwise, the label might
be stuck in the unit, and cause a trouble.
• Data MD is not available for the unit. Make
sure to use music MDs.



- How to Store MDs

  If you do not play an MD for a long time, remove the MD from the unit and keep it in an exclusive case to protect it from dust, scratch, curvature or other damage.

  Avoid leaving MDs at any of the following places.

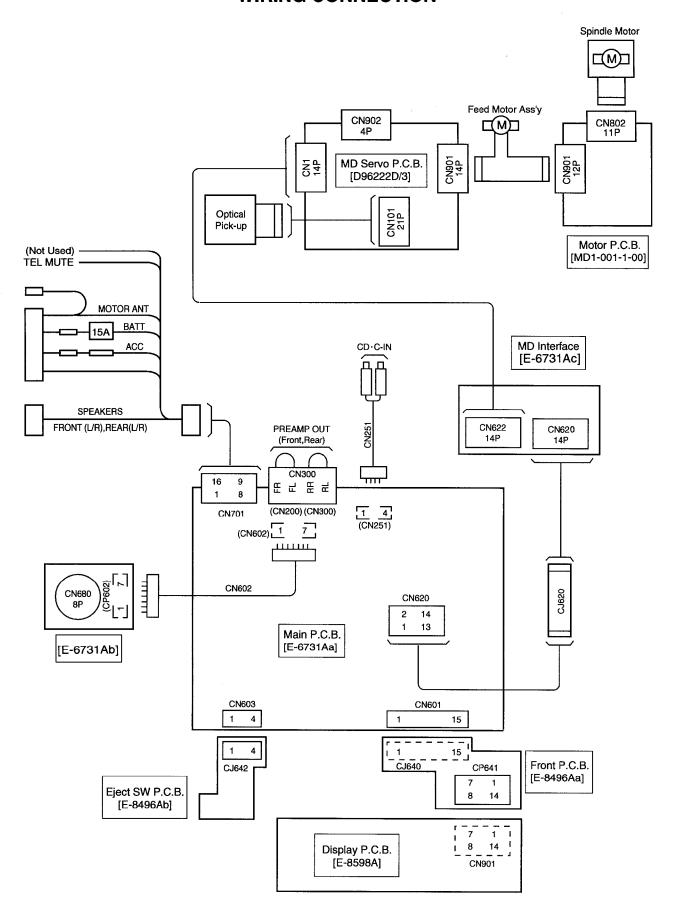
  - A place exposed to direct sunlight for a long time
     A humid or dusty place

  - 3. A place exposed to direct heat from
  - heaters
    4. Seats or dashboard in a car

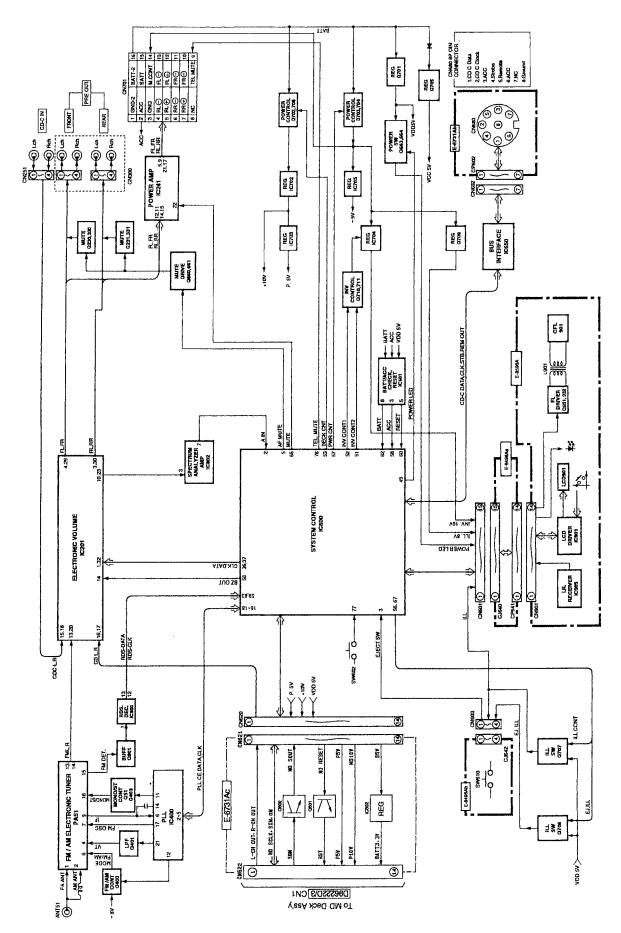
■ How to Clean MDs
If an MD cartridge became dirty, use dry cloth to
wipe a stain off.
Even when cleaning, never open the shutter.

40

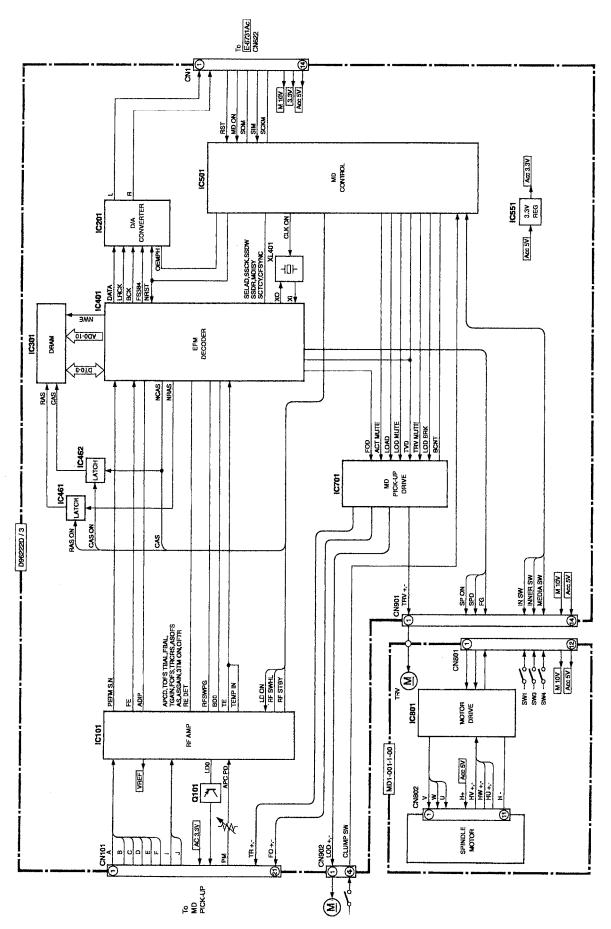
# WIRING CONNECTION



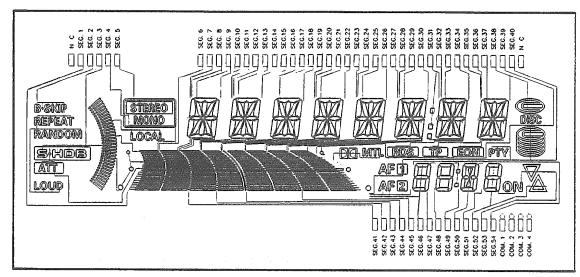
# **BLOCK DIAGRAM MODEL CQ-MR335LEN**



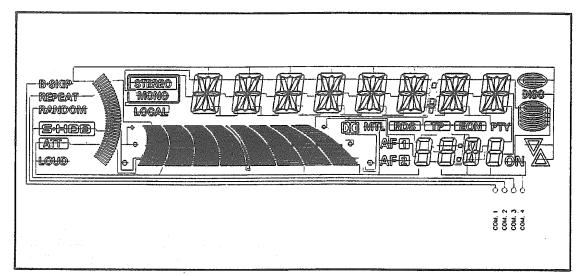
# BLOCK DIAGRAM < MD Servo Block> MODEL CQ-MR335LEN



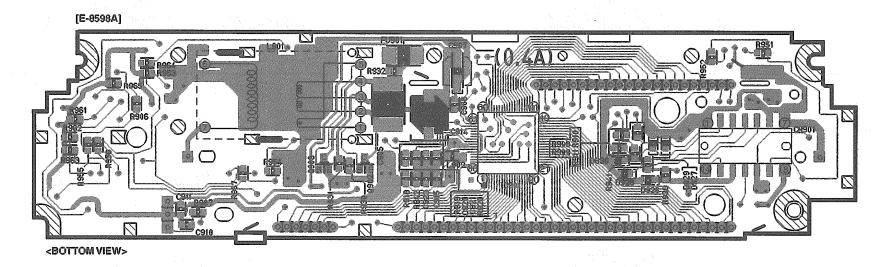
# WIRING DIAGRAM (Display Block) MODEL CQ-MR335LEN

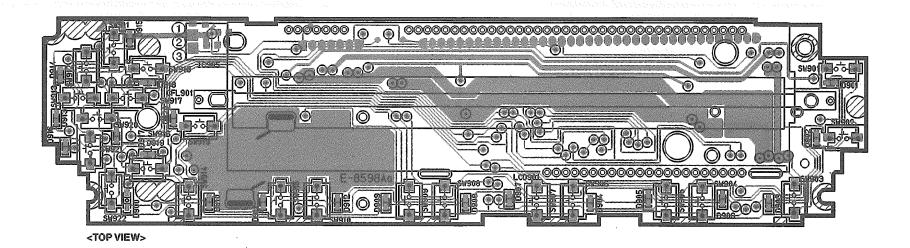


LCD901 Segment Connection



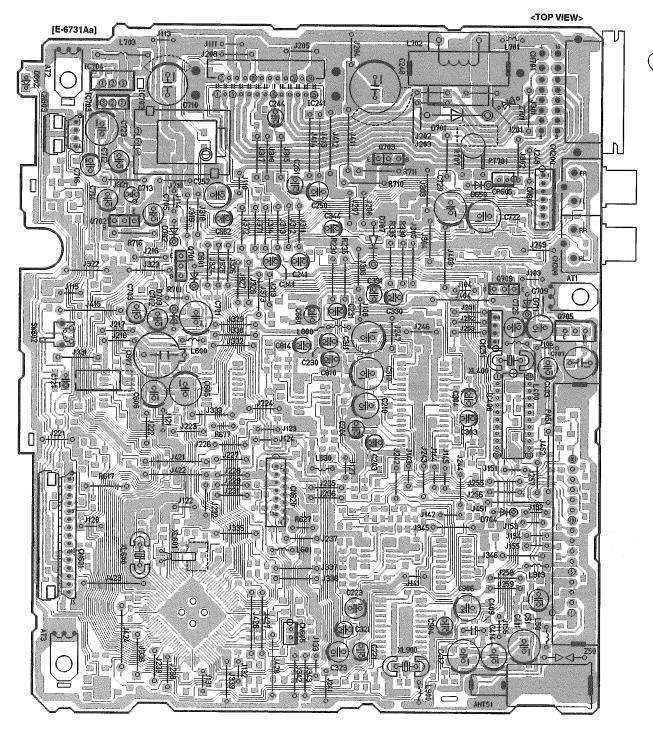
LCD901 Common Line Connection

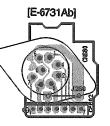


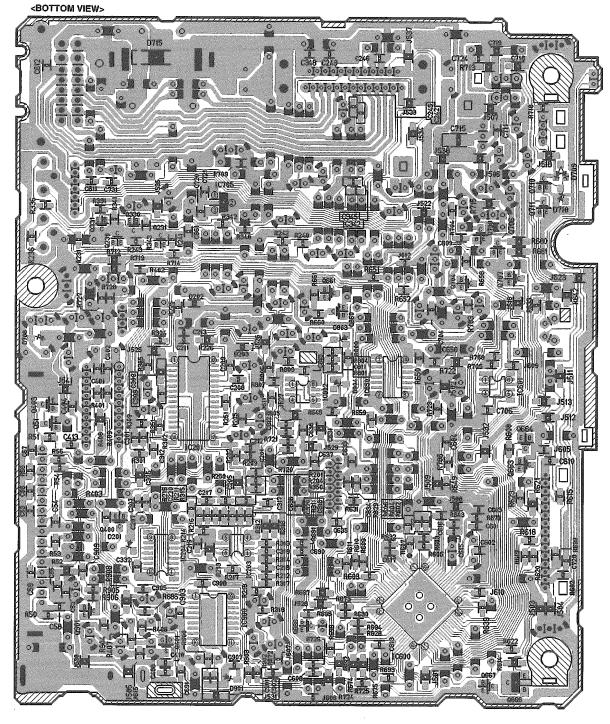


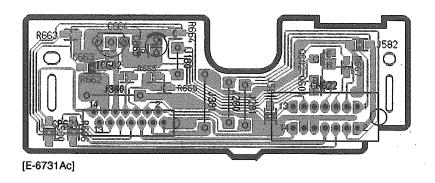
- 14 -

# WIRING DIAGRAM (Main/MD Interface Block) MODEL CQ-MR335LEN

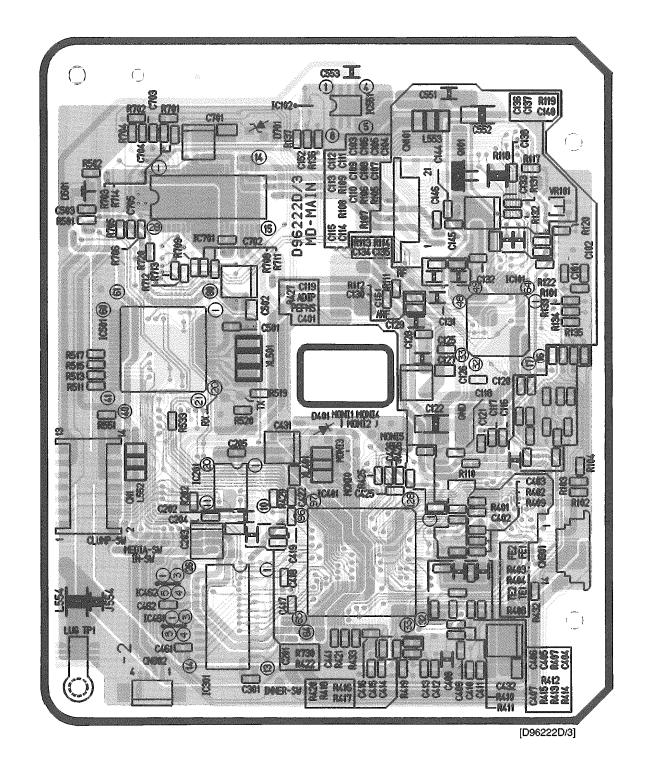


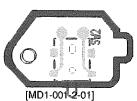


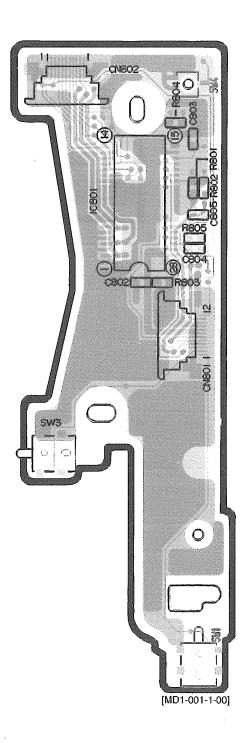




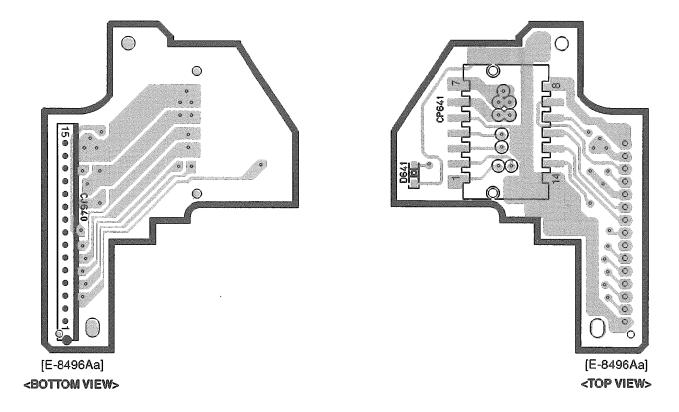
# WIRING DIAGRAM (MD Servo Block) MODEL CQ-MR335LEN

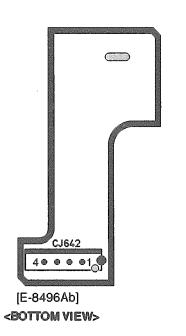


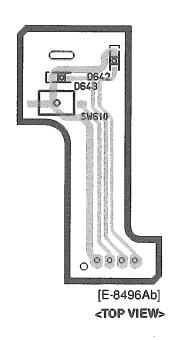




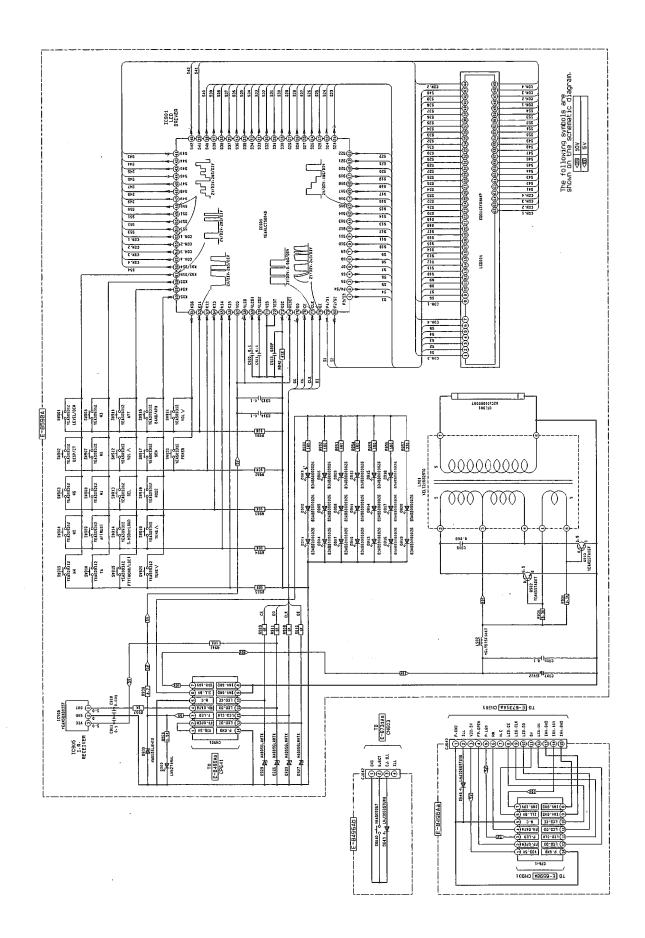
# WIRING DIAGRAM (Front/Eject SW Block) MODEL CQ-MR335LEN



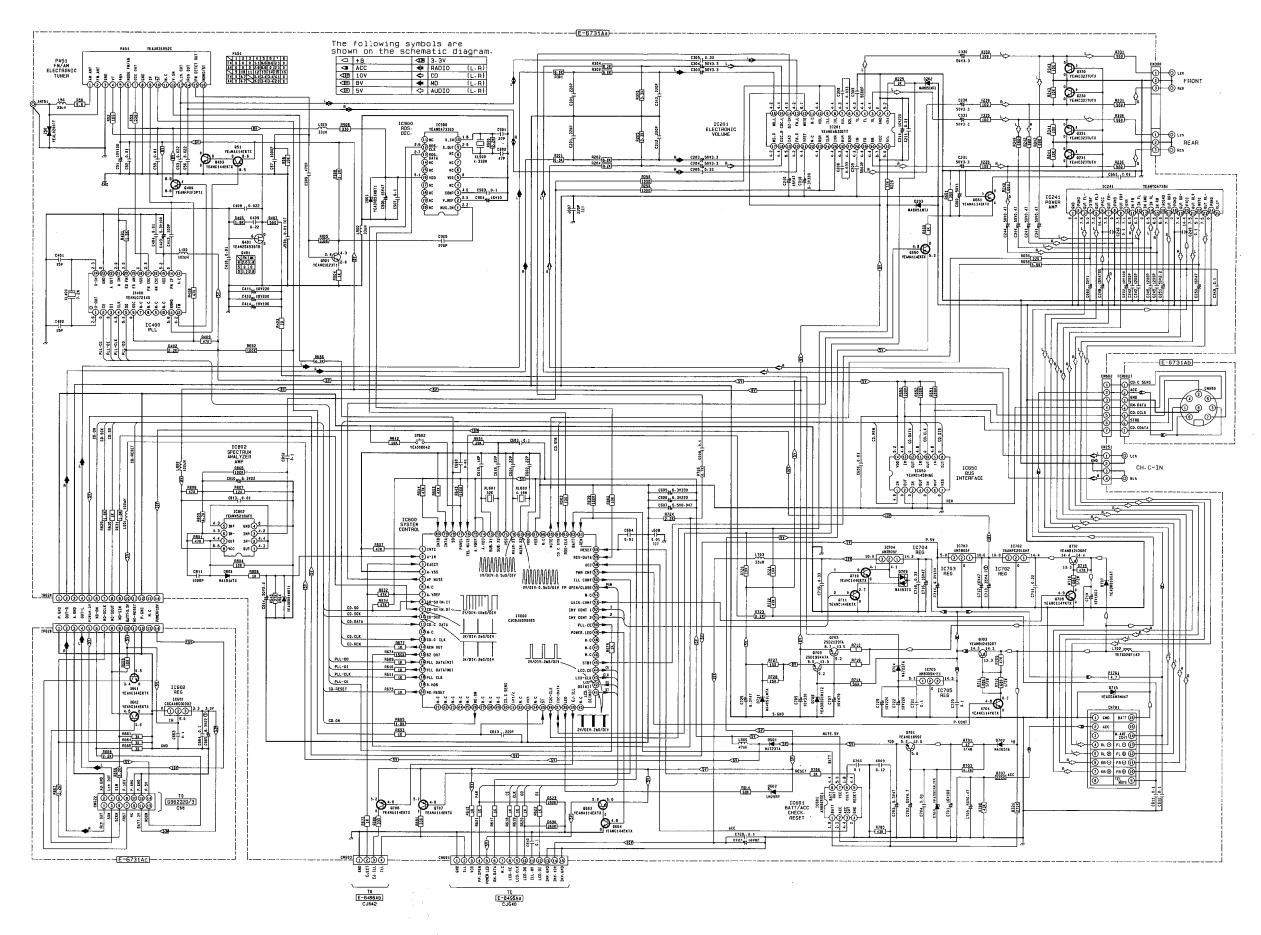




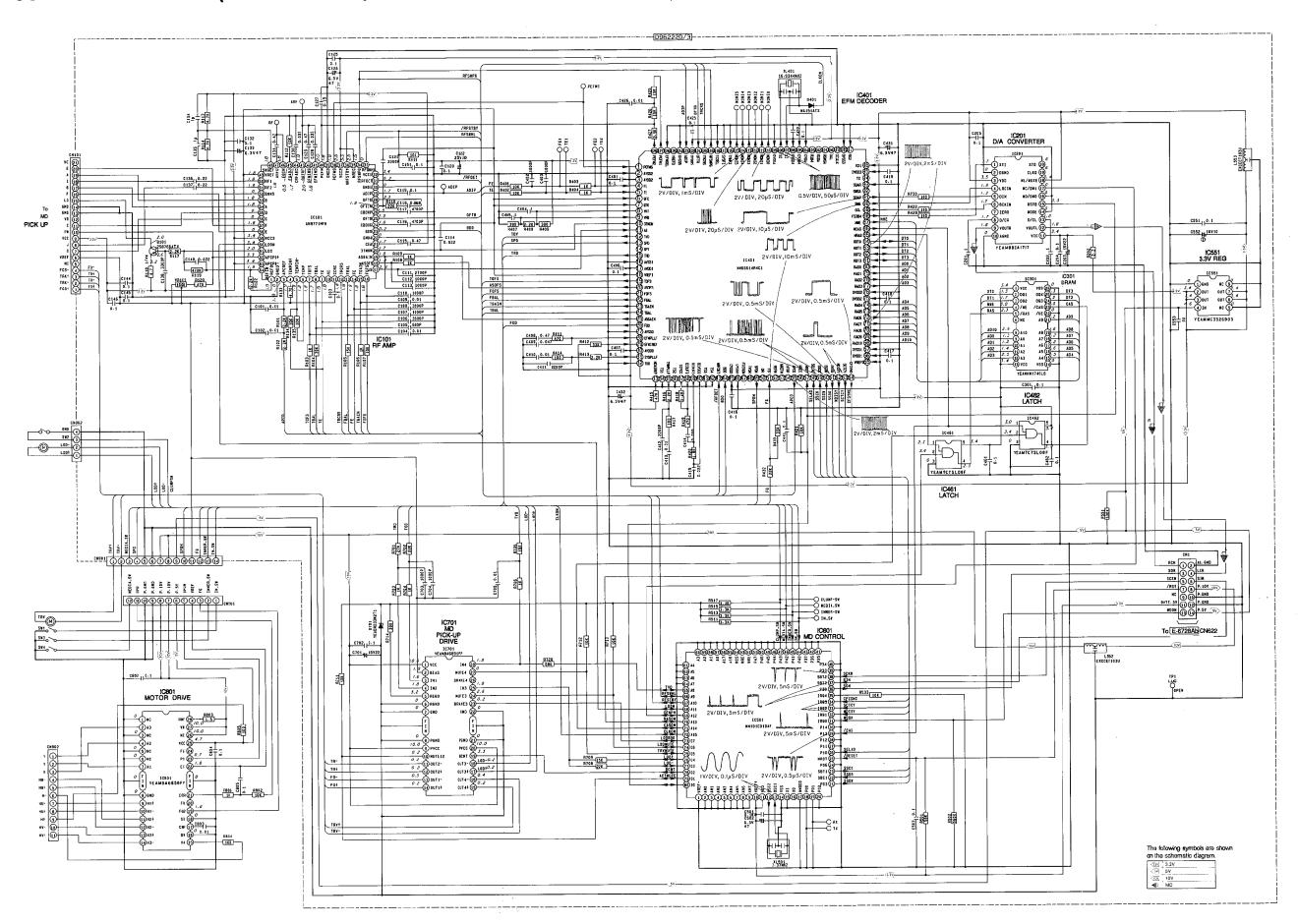
# SCHEMATIC DIAGRAM (Display/Front/Eject SW Block) MODEL CQ-MR335LEN



# SCHEMATIC DIAGRAM (Main/MD Interface Block) MODEL CQ-MR335LEN



# SCHEMATIC DIAGRAM (MD Servo Block) MODEL CQ-MR335LEN



Vol.(V)

4.7

0

5.0 5.0 5.0

0

4.8 4.8 4.8

0 0

0 0 0

4.8 4.8 4.8

4.8 4.8 4.8

4.3 4.3 4.3

4.8 4.8

0 0 0

4.8 4.8 4.8

2.2 2.2 2.2

4.8

4.8

4.7 4.7

0

0 0

4.8 4.8

0 0

0 0

4.8

4.8 4.8

0

0

4.8

0

0

4.8

1/0 AM FM MD

0 4.6 4.7 4.7

0 0 0 0

0

ī

0 4.8 4.8 4.8

0 4.8 4.8 0

0

o

0

0

0 0 0 0

0 4.8 4.8 4.8

ı 5.0 5.0 5.0

ī 5.0 5.0 5.0

0 4.8

0

1 4.8 4.8 4.8

\_

1

i

0 4.8 4.8 4.8

\_

0 2.7 2.7 2.7

ī

\_

1 5.0 5.0 5.0

1 0.4 0.4 0.4

1 3.7 1.9 3.7

ł 0 0 0

ī 0 0 0

# **TERMINALS DESCRIPTION (1)**

### ■ IC600 C2CB.IG000005

	Voi.(V)						T		
Pin No.	Name	Description	1/0	АМ	FM	MD	Pin No.	Name	Description
1	INTC	Initial C	1	0	0	0	41	LCD DI (DATA)	LCD Data Output
2	A-IN	Spectrum Analizer Level Meter Signal	1	0	0	0	42	LCD DO (STB)	LCD Data Strobe
3	EJCT	Eject Signal Detect	1	4.8	4.8	4.8	43	LCD CLK (CLK)	LCD Data Clock
4	A VSS	Ground (for A/D Converter)	-	0	0	0	44	LCD CE	Key Request
5	AF MUTE	Audio Mute	0	4.8	4.8	4.8	45	CFL CNT	Inverter Voltage Control
6	SEL CONT	Spectrum Analizer Output Select	0	0	0	0	46	ANT CONT	Motor Antenna Control
7	A VREF	Analog Reference Voltage	-	4.8	4.8	4.8	47	ILL C	External Illumination Detection
8	MODE 1	MD Deck Data	ı	4.5	4.7	4.5	48	CH 1, 2	Changer Control Select Signal
9	MD SIN	MD Deck Data	0	0	0	0	49	POWER LED	Power LED Contol Output
10	MODE 3	MD Deck Data Clock	0	4.7	4.7	4.7	50	BZ OUT	Buzzer Signal Output
11	CD .C DATA	CD Changer Data Input	ı	0	0	0	51	INV CONT2	inverter Voltage Control 2
12	(NC)	-	- 1	_	_	-	52	INV CONT1	Inverter Voltage Control 1
13	CD.C CLK	CD Changer Data Clock	1	0	0	0	53	DECK PW CNT	MD Deck Power Control
14	REM OUT	Remote Controller Data	0	4.8	4.8	4.8	54	CD.C SENS	Twin Changer Adapter Detection
15	PLL CE	PLL Chip Enable	0	0	0	0	55	FP OPEN/CLOSE	Panel Open/Close Detection
16	PLL DATA (NI)	PLL Serial Data Input	Т	5.0	5.0	5.0	56	ILL CONT	Illumination Control Signal
17	PLL DATA (MO)	PLL Serial Data Output	0	0	0	0	57	PWR CONT	*POWER* On/Off Control
18	PLL CLK	PLL Serial Data Clock	0	0	0	0	58	ACC	ACC Detection
19	STBY	Standby Output (for Power Amp IC)	0	4.8	4.8	4.8	59	(NC)	<del>-</del>
20	MMT F	MD Reset Output	0	0	0	0	60	RESET	Reset
21	SMT F (NC)		-	_	_	-	61	REM	Remote Control Data Input
22	DOLBY (NC)		- 1	-	_	-	62	BATT	Battery Voltage Detection
23	F/R (NC)		-	-	-	-	63	(NC)	-
24	MS GAIN (NC)		-	_	-	-	64	CD.C STB	CD Changer Strobe Signal
25	MTL (NC)	_	-	-	-	-	65	MUTE	Mute Control
26	SMT R	MD On Output	0	4.8	4.8	4.8	66	MODE2 (NC)	-
27	R. REEL	(Not Used) (Pull Down)	~	-	_	-	67	VSS	Ground
28	F. REEL (NC)	•	-	-	-	-	68	VDD	Connecting to +5V
29	MS IN (NC)	-	-	_	-	-	69	X2	Crystal Oscillator
30	T IN (NC)	_	_	_			70	X1	Crystal Oscillator
31	CONT A	Spectrum Analizer Output Select A	0	4.8	4.8	4.8	71	vss	Ground
32	CONT B	Spectrum Analizer Output Select B	0	4.8	4.8	4.8	72	(NC)	
33	vss	Ground	-	0	0	0	73	(NC)	-
34	CONT C	Spectrum Analizer Output Select B	0	4.8	4.8	4.8	74	A VDD	Connecting to +5V
35	ST	FM Stereo Signal Input	1	0	5.0	0	75	A VREF	Analog Reference Voltage
36	I2C CLK	Electronic Volume Clock	0	5.0	5.0	5.0	76	TEL MUTE	Telephone Mute Signal Input
37	I2C DATA	Electronic Volume Control Data	1/0	5.0	5.0	5.0	77	PANEL	Panel Open Detection
38	LED (NC)	_	-	-	-	-1	78	SD	FM/AM SD Signal Input
39	EJ ILL	Eject Button Illumination Control	0	5.0	5.0	5.0	79	INTA	Initial A
40	BZ IN	(Not Used)	-	- 1	_		80	INTB	Initial B
		·							

### ■ IC901 YEAMLC75884W

Pin No.	Name	Description	1/0	Vol.(V)
1-51	S3-S53	LCD Segment 4 -53	0	2.7
52	COM1	LCD Common 1	0	2.7
53	COM2	LCD Common 2	0	2.7
54	СОМЗ	LCD Common 3	0	2.7
55	COM4	LCD Common 4	0	2.7
56	KS1	Key Scan Output 1	0	0.9
57	KS2	Key Scan Output 2	0	0.9
58	KS3	Key Scan Output 3	0	0.9
59	KS4	Key Scan Output 4	0	0.9
60	KS5	Key Scan Output 5	0	0.9
61	KS6	Key Scan Output 6	0	0.9
62 - 66	KI1 - KI5	Key Return 1 - 5	I	0
67	VDD	Connect to +5V	_	5.1

Pin No.	Name	Description	1/0	Vol.(V)
68	VLCD	LCD Reference Voltage (VDD)	1	5.1
69	VLCD1	LCD Reference Voltage (1)	- 1	3.3
70	VLCD2	LCD Reference Voltage (2)	1	1.7
71	VSS	Connect to Ground	_	0
72	TEST	TEST Mode	1	0
73	osc	CR Oscillator	I	3.9
74	/RESET	Reset	1	5.1
75	DO	LCD Data Output	0	4.1
76	CE	LCD Chip Enable	ı	0
77	CLK	LCD Clock	1	0
78	DI	LCD Data Input	ŀ	0
79	KEY LED CNT	"POWER" LED Control	0	2.7
80	P.LED CNT	"KEY" LED Control	0	2.7

# TERMINALS DESCRIPTION (2) <MD Servo Block-1>

# ■ IC401 MN66614R4C1

Pin No.	Port	Description	1/0	Vol. (V)
1	PEFMS	FEM Date Slice Input	1	1.8
2	AVSS2	Analog GND	1	0
3	AVDD2	+3.3V Power Supply for Analog		3.4
4	FE	Focus Error Signal	-	1.8
5	TE	Tracking Error Signal	i i	1.8
6	GFC	Focus Acceleration Sensor Input	1	1.8
7	GTK	Tracking Acceleration Sensor Input	<del>                                     </del>	1.8
В	VRT	Positive Reference Voltage for A/D Converter	<del></del>	2.8
9	VRB	Negative Reference Voltage for A/D Converter		0.7
10	3TMON	FEM 3T Signal Envelope Input	<del>                                     </del>	1.7
11	AS	Beam Sum Signal	i	2.4
		The state of the s	0	1.8
12	TVD	Traverse Drive/Stepping Motor Drive Signal	0	1.9
13	SPD	Spindle Drive Signal	<u> </u>	1.8
14	STP (NC)	Tranking Drive Signal	0	1,8
		Tracking Drive Signal	1	0
16	AVSS1	Analog GND		
17	AVDD1	+3.3V Power Supply for Analog	1	3.4
18	VREF1	Reference Voltage Input	1	1.8
19	TOFS	TE Olfset Adjust Output	0	1.8
20	ASOFS	AS Offset Adjust Output	0	1.8
21	FOFS	FE Oliset Adjust Output	0	1.8
22	FBAL	FE Balance Adjust Output	0	1.8
23	TGAIN	TE Gain Adjust Output	0	1.7
24	TBAL	TE Balance Adjust Output	0	1.8
25	ASGAIN	AS Gain Adjust Output	0	1.8
26	FOD	Focus Drive Signal	0	1.8
27	AVSS0	Analog GND		0
28	FEMPLLF	Filter Input for EFM PLL	1	1.8
29	EFMIREF	Current Control Input for EFM PLL	<u>'</u>	1.3
30	AVDD0	+3.3V Power Supply for System Clock PLL		3.4
31	SISPLLF	Filter Input for	1	1.8
32	TS0	(Connecting to GND)	1	0
33	MDAIREF	Current Control Input for System Clock PLL	1	1.3
34	TS1	(Connecting to GND)	1	0
35	TRNPLLF	Filter Input for Internal Clock PLL	1	3.4
36	TS2	(Connecting to GND)	1	0
37	DIPCO	PLL PD Output to Digital Audio Interface	0	3.4
38	DIBUFI	Integrate Amplifier Input from Digital Audio Interlace	ı	2.5
39	DIBUFO	Integrate Amplifier Output to Digital Audio Interface	0	0
40	DIVCOI	VCO Control Voltage Input from Digital Audio Interface	1	0
41	T83	(Connecting to GND)	ı	0
42	TS4	(Connecting to GND)	1	0
43	NRFDET	EMF Detection Signal (L:Detect)	1	0.2
44	BDO	AS Drop Out Signal (H:Drop Out)	ı	0.2
45	DVDD0	+3.3V Power Supply for Digital	1	3.4
46	DVSS0	Digital GND	1	.0
47	FOTRON (NC)	-		_
48	TVON (NC)	-	-	-
49	SPON	Spindle Drive ON Signal	0	3.4
50	DD 410)	-	-	-
	DR (NC)			1.5
51	FG FG	FG Input	i	1,5
		FG Input –	-	1.5
51	FG	FG Input -		
51 52	FG REFM (NC)	FG Input	Ξ	
51 52 53 54	FG REFM (NC) NREFM (NC) HFRP (NC)		Ξ	-
51 52 53 54 55	FG REFM (NC) NREFM (NC) HFRP (NC) APCD	FG Input	- - -	-
51 52 53 54 55 56	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC)	Laser Power Setting PWM Output	- - 0	1.9
51 52 53 54 55 56 57	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST	Laser Power Setting PWM Output  Hardware Reset (L:Reset)	- - 0 -	1.9
51 52 53 54 55 56 57 58	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST SELAD	Laser Power Settling PWM Output  Hardware Reset (L:Reset)  Command Address Select Signal	- - 0 -	1.9 - 3.3 0.6
51 52 53 54 55 56 57 58	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST SELAD SSCK	Laser Power Settling PWM Output  Hardware Reset (L:Reset) Command Address Select Signal Command Serial Clock Signal	- - 0 - -	- - 1.9 - 3.3 0.6 3.3
51 52 53 54 55 58 67 58 59 60	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST SELAD SSCK SSDW	Laser Power Setting PWM Output  Hardware Reset (L:Reset)  Command Address Select Signal  Command Serial Clock Signal  Command Serial Write Data	- 0	1.9 - 3.3 0.6 3.3 0.6
51 52 53 54 55 56 67 58 59 60	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST SELAD SSCK SSDW SSDR	Laser Power Setting PWM Output  Hardware Reset (L:Reset)  Command Address Select Signal  Command Serial Clock Signal  Command Serial Write Data  Command Serial Read Data	- - 0 - 1 1	1.9 - 3.3 0.6 3.3 0.6 2.2
51 52 53 54 56 56 57 58 59 60 61 62	PG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST SELAD SSCK SSDW SSDR MDISY	Laser Power Setting PWM Output  Hardware Reset (L:Reset)  Command Address Select Signal  Command Serial Clock Signal  Command Serial Write Data  Command Serial Read Data  CD ROM Sector sync Signal	- - 0 - - - - - -	1.9 - 3.3 0.6 3.3 0.6 2.2
51 52 53 54 56 56 57 58 59 60 61	FG REFM (NC) NREFM (NC) HFRP (NC) APCD NREC (NC) NRST SELAD SSCK SSDW SSDR	Laser Power Setting PWM Output  Hardware Reset (L:Reset)  Command Address Select Signal  Command Serial Clock Signal  Command Serial Write Data  Command Serial Read Data	- - 0 - 1 1	1.9 - 3.3 0.6 3.3 0.6 2.2

Pin No.	Port	Description	1/0	Vol. (V)
65	VREF6	Reference Voltage for Signal Level	1	3.4
66	DVDD1	+3.3V Power Supply for Digital	<del></del>	3.4
	DVSS1	+3.3V Power Supply for Digital Digital GND	<del></del>	0
67 88	RAD10	DRAM Address 10 (MSB)	0	1.6
69	RAD9	DRAM Address 9	0	1.6
70	RAD8	DRAM Address 8	0	1.6
71	RAD7	DRAM Address 7	0	1.6
$\vdash$		DRAM Address 6	0	1.6
72	RAD6	DRAM Address 5	0	1.8
74	RAD4	DRAM Address 4	0	1.6
75	DVDD2	+3.3V Power Supply	j	3.4
76		Digital GND	<del>                                     </del>	0
77	DVSS2 RAD3	DRAM Address 3	0	1.5
78	RAD2	DRAM Address 2	0	1.8
79	RAD1	DRAM Address 1	0	1.8
80	RADO	DRAM Address 0 (LSB)	0	2.7
81	RDT3	DRAM Data 3 (MSB)	1/0	1.6
82	RDT2	DRAM Data 2	VO	1.6
			1/0	1.8
83	RDT1	DRAM Data 1	1/0	2.5
	NRAS	DRAM Data 0 (LSB) DRAM Lower Address Strobe	0	2.5
85		DRAM Column Address Strobe	0	2.3
86	NCAS	DRAM Write Enable	0	<del></del>
87	NWE	<del></del>	-	1.8
88	FS384	384Fs Output	0	1.7
89	SCL	Bit Clock Output (64Fs)	0	1.8
90	SW6	Rear Compression Word Clock Output (Fs)	0	1.2
91	SDAP	Audio Data Output to D/A Converter	0	1.8
92	SWSA (NC)	Audio Data Input from A/D Converter	1	-
1		Audio Dala input from Alo Converter	<u> </u>	
94	TX (NC)	2 DV Bours Completor Digital	- 1	
95	DVDD3	+3.3V Power Supply for Digital Digital Audio Interface Signal Output 1 (C-MOS)	<del></del>	3.4
96	RX1			0
97	RX2	Digital Audio Interface Signal Output 2 (C-MOS)		
98	DVSS3	Digital GND		0
99	DIULK (NC)			
100	RCL (NC)		-	
101	RSWSA (NC)	-		
102	RXDA (NC)			
103	R384 (NC)	OL L. L. A. OD TENT O. D. O. D. D. C.	-	
104	CVDA CV384	Clock Input for CD-TEXT Data Communication	-	0
		(Connecting to GND)	_	
106	DADD4 (NC)	+3.3V Power Supply for Digital		3.4
107	X X	Crystal Oscillator Input (16.934MHz)		1.6
108	XO	Crystal Oscillator Output (16.934MHz)	0	1.8
109	DVSS4	Digital GND		0
110	MONIO	Monitor Output O/CD-TEX Communication Data Output	0	1.8
111	MONI1	Sub-Code Frame Sync Signal Output for CD-TEXT	0	3.4
112	MONI2	Monitor Output 3/Sub-Code Block Sync Signal Output for CD-TEXT	0	
113	MONI3 MONI4		0	3.4
	MONI5	(Open)	0	0
115	TRNFI	(Open) Filter input for Internal Clock PLL	1	0
117	SYSFI	Filter Input for System Clock PLL	1	- 0
	·····		1	0
118	TOSEL	(Connecting to GND)	0	
119	RFSWPG	RFIC Bit/Group Setting (H:Bit)		0
120	TRCRS	Track Close Signal		3.3
121	OFTR	Off Track Signat (H; Off Track)		2.5
122	DVDD5	+3.3V Power Supply for Digital	1	3.4
123	ADIP	ADIP FM Signal Input (21.8±0.98kHz,100mVp-p or more)	1	1.5
124	DVSS5	Digital GND		0
125	VREFD	Reference Voltage PWM Output/Drive IC Track	0	
126	EFMSEL	(Connecting to GND)	- !	0
127	PEFM1	Loop Filter Output 1 for Data Slice	0	1.8
128	PEFM2	Loop Filter Output 2 for Data Slice	0	1.8

# TERMINALS DESCRIPTION (3) <MD Servo Block-2>

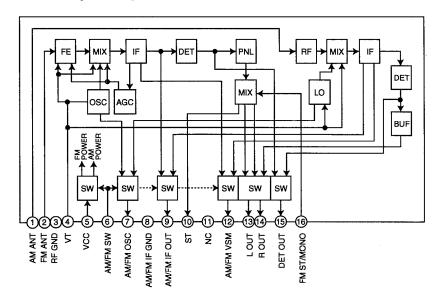
# ■ IC501 MN101C01DAF

	0301 101	1410100	IDAI		
Pin No	. Port	Name	Description	1/0	Vol. (V)
1	VREF	(NC)		<del>                                     </del>	
2	ANO	(NC)	_	1 -	<del> </del>
3	AN1	(NC)		+	<del></del>
4	AN2	(NC)		+	<del></del>
5	AN3	(NC)		+	<del>                                     </del>
8	AN4	(NC)		+=	<del></del>
7	AN5	(NC)		<del>  -</del> -	<u> </u>
8	ANB	(NC)	<del></del>	<del> </del>	
9	AN7	(NC)	<del></del>	<del> </del>	<u> </u>
10	VREF+	VREF+	D.4	<del> </del>	
11	VDD	VDD	Reference Voltage for A/D Converter +3.3V Power Supply	+-	3.4
12	OSC2	OSC2			3.4
13	OSC1	0502	Crystal Oscillator Output (7.37MHz) Crystal Oscillator Input (7.37MHz)		1.7
14	VSS	vss		1 1	1.7
15		<del></del>	GND	<del>  -</del>	0
16	X	(NC)	-	<u> </u>	<u> </u>
	XO	(NC)		<u> </u>	-
17	MMQDo	(NC)			-
18	P00	(NC)		<u> </u>	-
19	P01	(NC)	-	<u> </u>	
20	P02	(NC)			
21	P03	SSDW	Serial Write Data to IC401	0	0.6
22	SBi1	SSDR	Serial Read Data from IC402	1	2.0
23	SBT1	SSCK	Serial Clock to IC401	0	3.3
24	P06	(NC)	_	1 -	-
25	NRST	RESET	CPU Reset	1	3.0
26	P10	SELAD	Serial Address Select from iC401	1	0.7
27	P11	(NC)	<u> </u>	-	_
28	P12	(NC)	_	1 -	_
29	P13	CAS	DRAM CAS Signal	1	3.0
30	P14	(NC)		<del>  -</del>	
91	IRQ0	MDON	System Start/Stop Control (H:Start)	1	2.6
32	IRQ1	MDISY	Sector Sync from IC401	,	0.7
33	IRQ2	SCTCY	SUBQ/ADIP Sync		0.2
34	IRQ3	CFCSNC	ATRAC Frame Sync	1	0.2
35	IRQ4	(NC)	_	1 - 1	
36	P30	SOM	Serial Data Output for Bus Communication	6	1.3
37	SBI2	SIM	Serial Data Input for Bus Communication	1	1.0
38	SBT2	SCKM	Serial Clock Input for Bus Communication	1-:-	3.3
39	P33	(NC)		<del>                                     </del>	3.3
40	F34	(NC)		<del>  -</del>	
41	P35	(NC)		1 - 1	
42	P36	(NC)		+	
43	P37	(NC)		+	
44	P40	INSW	Disc IN SW Input	+ 1	<del></del>
45	P41	INNER SW	Inner SW Input	<del>  '  </del>	
46	P42	MEDIA SW	Media SW Input	1 !	3.2
47	P42	CLUMP SW		1 1	3.2
48	P43		Clump Completion SW Input	<del>  '- </del>	
49	P44 P45	(NC)	<u> </u>	-	
50		(NC)		<del>  -  </del>	
51	P46	(NC)	-	<b>↓</b> – ↓	
		(NC)		-	
52	NWE	(NC)	-	-	]
53	NRE	(NC)	-	<u> </u>	
54	NCS	(NC)	-	<u> </u>	
55	A16	(NC)		<u> </u>	-
56	A17	(NC)		<u>L-</u> T	
57	A0	(NC)	_	∐	
58	A1	(NC)	***	- 1	-
59	A2	(NC)	_	-	
60	EA	(NC)		1 - 1	
61	A4	(NC)	-	[ - f	-
62	A5	(NC)		- 1	
63	A6	(NC)	-	_	
64	A7	(NC)	-	<del>                                     </del>	
65	A8	TVD	Traverse Motor Control	1/0	0.5
66	A9	RESWHL	Reflection Rate Selector for TC101	1/0	0
67	A10	RFSTBY	Standby for IC101	1/0	3.3
68	A11	LDON	Laser ON Signal	1/0	3.4
69	A12	DEMPH	MASH Emphasis	VO	0
70	A13	RASON	DRAM RAS Control (H:ON)	1/0	3.4
71	A14	CASON	DRAM CAS Control (H:ON)	1/0	3.3
72	A15	CLKON	Clack Contorol for IC401 (L:Stop)	1/0	2.9
73	D7	LODBAK	Loading Motor Brake (H:Brake)	1/0	
74	06	LODMUTE	Loading Motor Driver Mute (H:Mute)		0
75	D5	TRVMUTE	The state of the s	1/0	2.6
76	D4		Traverse Motor Mute (H:Mute)	1/0	0
77	D3		Loading Motor Control + (H:Lode,L:Eject)	1/0	1.6
78			Loading Motor Control - (H:Lode,L:Eject)	1/0	1.6
	D2	BCNT	Reference Voltage Control (H:P5V ON)	1/0	3.3
79	D1		Actuate Mute (H:Mute)	1/0	0
80	D0	PRST	Reset Input from IC401	1/0	3.3

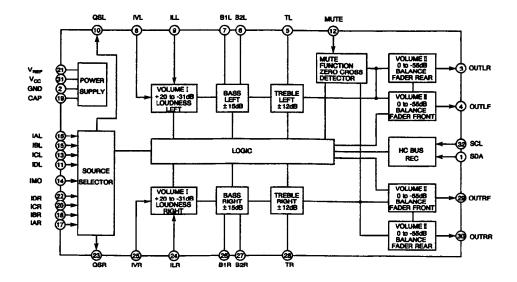
# **PACKAGE AND IC BLOCK DIAGRAM (1)**

# <Main Block>

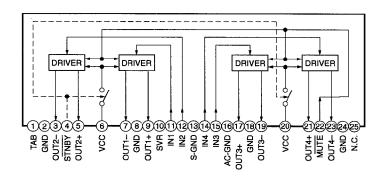
# ■ PA51 YEAU03E052C [E-6731A]



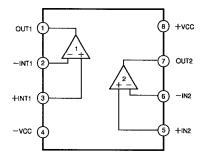
# ■ IC201 YEAMEA6320TT [E-6731A]



# ■ IC241 YEAMTDA7384 [E-6731A]

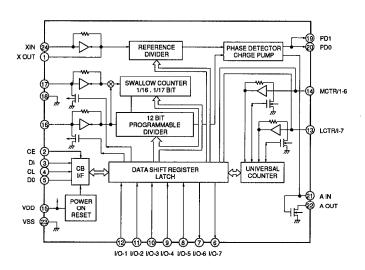


# ■ IC802 YEAMM5218AFE [E-6731A]

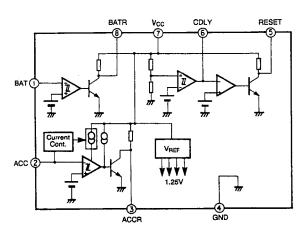


# PACKAGE AND IC BLOCK DIAGRAM (2)

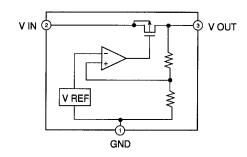
# ■ IC400 YEAMLC72146 [E-6731A]



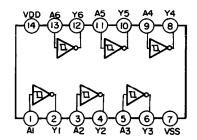
# ■ IC601 AN8065SE1 [E-6731A]



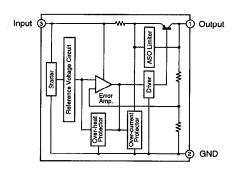
# ■ IC602 C0CAABC00002 [E-6731A]



# ■ IC650 YEAMC14584BE [E-6731A]

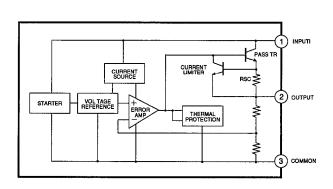


# ■ IC705 AN8009M-E1 [E-6731A]

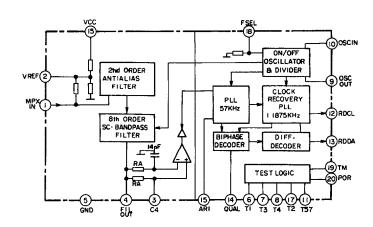


# ■ IC702 YEAMPC2910HF [E-6731A]

■ IC703, 704 AN7805F [E-6731A]



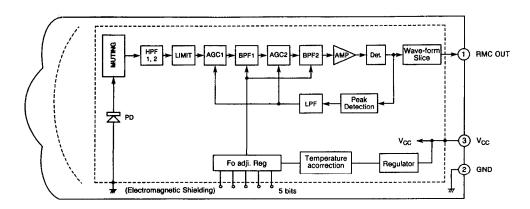
# ■ IC900 YEAMDA7331D [E-6731A]



# PACKAGE AND IC BLOCK DIAGRAM (3)

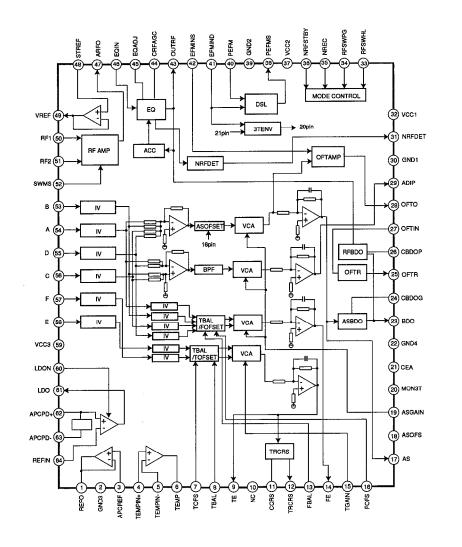
# <Display Block>

■ IC905 YEAMSBX8035F [E-8598A]



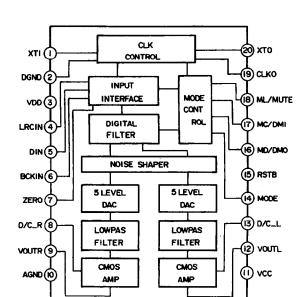
# <MD Servo Block>

■ IC101 AN8771NFH [D96222D/3]

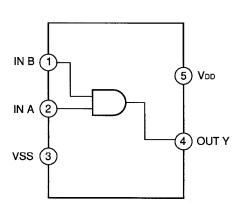


# PACKAGE AND IC BLOCK DIAGRAM (4)

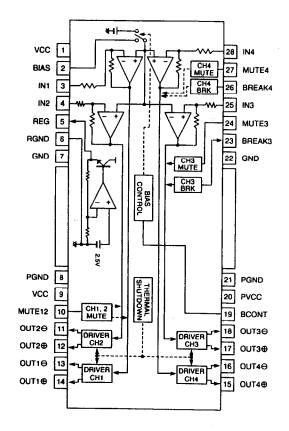
# ■ IC201 YEAMBBDA1717 [D96222D/3]



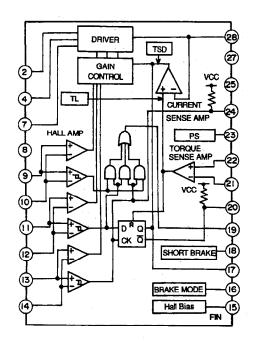
■ IC461, 462 YEAMTC7SL08F [D96222D/3]



# ■ IC701 YEAMBA6891FP [D96222D/3]



# ■ IC801 YEAMBA6858FP [M1-001-1-00]



# 1 Replacement Parts List

### Note:

- 1. Be sure to make your orders of replacement parts according to this list.
- Important safety notice: Components, identified by A
  mark have special characteristics important for safety.
   When replacing any of these components, use only
  manufacture's specified parts.
- Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
- 4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

# 1.1. IC's and Transistors

Ref.	Part No.	NTERFACE BLOCK [E-6731A] Part Name & Description	Remark
No.		_	s
IC201	YEAMEA6320TT	IC	
IC241	YEAMTDA7384	IC	
IC400	YEAMLC72146	IC	
IC600	C2CBJG000005	IC	
IC601	AN8065SE1	IC	
IC602	C0CAABC00002	IC	
IC650	YEAMC14584BE	IC	
IC702	YEAMPC2910HF	IC	
IC703	AN7805F	IC	
IC704	AN7805F	IC	
IC705	AN8009M-E1	IC	
IC802	YEAMM5218AFE	IC	
IC900	YEAMDA7331D	IC	
PA51	YEAU03E052C	Electronic Tuner	
Q51	YEANA114EKTX	Transistor	
Q230	YEANC323TUTX	Transistor	
Q231	YEANC323TUTX	Transistor	
Q330	YEANC323TUTX	Transistor	
Q331	YEANC323TUTX	Transistor	
Q400	YEANFP1F3PT1	Transistor	
Q401	YEAN2SK536TB	Transistor	
Q403	YEANC144EKTX	Transistor	
Q601	YEANC144EKTX	Transistor	
Q602	YEANC144EKTX	Transistor	
Q660	YEANA114EKTX	Transistor	
Q661	YEANA114EKTX	Transistor	
Q663	YEANA114EKTX	Transistor	
Q664	YEANC144EKTX	Transistor	
Q701	YEAND1859T	Transistor	
Q702	YEANB1243QRT	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANC114YKTX	Transistor	
Q705	2SD2139TA	Transistor	
Q706	YEANA114EKTX	Transistor	
Q707	YEANA114EKTX	Transistor	
Q708	YEANC114YKTX	Transistor	
Q709	2SD1994ATA	Transistor	
Q710	YEANC144EKTX	Transistor	
Q711	YEANC144EKTX	Transistor	
Q901	YEANC1623T1	Transistor	

	DISF	PLAY BLOCK [E-8598A]	
Ref.	Part No.	Part Name & Description	Remark
No.			8
IC901	YEAMLC75884W	IC	

Ref. No.	Part No.	Part Name & Description	Remark
IC905	YEAMSBX8035F	IC	
Q902	YEANSSTA06T	Transistor	
Q903	YEANSSTA06T	Transistor	

# 1.2. Diodes

Ref.	Part No.	Part Name & Description	Remark
No.			8
D202	MA8051MTX	Diode	
D203	MA8051MTX	Diode	
D601	MA723TA	Diode	
D602	LN25RP	LED	
D702	MA165TA	Diode	
D703	YEADRD56JS3	Diode	
D704	MA723TA	Diode	
D707	YEADRB100AT	Diode	
D708	YEADRD91M1T2	Diode	
D709	MA153TX	Diode	
D711	MA4051LMTA	Diode	
D715	YEADDAM3MA47	Diode	
D803	MA151ATX	Diode	
D804	YEADRD51MBT1	Diode	
D901	YEADRD51MBT1	Diode	

Ref. No.	Part No.	Part Name & Description	Remark s
D900	LN1271RAL	LED	
D901	B3ABB0000026	LED	
D902	B3ABB0000026	LED	-
D903	B3ABB0000026	LED	~
D904	B3ABB0000026	LED	
D905	B3ABB0000026	LED	
D906	B3ABB0000026	LED	
D907	B3ABB0000026	LED	
D908	B3ABB0000026	LED	
D909	B3ABB0000026	LED	-
D910	B3ABB0000026	LED	
D911	B3ABB0000026	LED	
D912	B3ABB0000026	LED	
D913	B3ABB0000026	LED	
D914	B3ABB0000026	LED	
D915	B3ABB0000026	LED	
D916	B3ABB0000026	LED	
D917	B3ABB0000026	LED	
D918	B3ABB0000026	LED	
D919	B3ABB0000026	LED	
D920	B3ABB0000026	LED	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930	MA8056LMHTX	Diode	

	FRONT/EJECT SW BLOCK [E-8496A]			
Ref. No.	Part No.	Part Name & Description	Remark	
D641	LNJ306G5TUWQ	LED		
D643	LNJ306G5TUWQ	LED		

# 1.3. Capacitors

	MAIN/MD INTERFACE BLOCK [E-6731A]			
Ref. No.	Part No.	Part Name & Description	Remark	
C51	ECA1AM101I	Electrolytic,100µF 10WV		
C52	YECUS1H103KX	Ceramic, 0.01µF 50WV		
C53	YECUS1E223KX	Ceramic, 0.022µF 25WV		
C56	YECUS1E223KX	Ceramic, 0.022µF 25WV		
C57	YECUS1H102KX	Ceramic, 0.001µF 50WV		
C59	YECUS1H103KX	Ceramic, 0.01µF 50WV		
C201	YECUS1H221JM	Ceramic,220pF 50WV		
C203	ECEA1HKA3R3I	Electrolytic, 3.3µF 50WV		
C204	ECEA1HKA3R3I	Electrolytic.3.3uF50WV		

Ref. No.	Part No.	Part Name & Description	Remar
C205	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C208	YECUS1E333KX	Ceramic, 0.033µF 25WV	Ì
C209	YECUS1H562KX	Ceramic, 0.0056µF 50WV	1
C210	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C211	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C212	YECUS1H221JM	Ceramic,220pF 50WV	
C230	ECEA1HKA3R3I	Electrolytic, 3.3µF 50WV	
C231	ECEA1HKA3R3I	Electrolytic, 3.3µF 50WV	
C241	ECEA1HKAR47I	Electrolytic, 0.47µF 50WV	1
C242	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C244	ECEA1HKAR47I	Electrolytic, 0.47µF 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012µF 50WV	<del> </del>
C246	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C248	ECA1CDT472Y	Electrolytic, 4700µF 16WV	
C249	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C250	ECEA1CKA470I	Electrolytic, 47µF 16WV	<del> </del>
C251	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C252	ECEA1AKA101I	Electrolytic,100µF 10WV	<del>                                     </del>
C301	YECUS1H221JM	Ceramic, 220pF 50WV	<del> </del> -
	+		<del>                                     </del>
C303 C304	ECA1HSA3R3I	Electrolytic 3 3ur 50WV	
	ECA1HSA3R31	Coronic 0 33vF 16MV	<del> </del>
C305	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C308	YECUS1E333KX	Ceramic, 0.033µF 25WV	<del> </del>
C309	YECUV2A562KX	Ceramic, 0.0056µF 100WV	<del> </del>
C310	ECEA0JKA3311	Electrolytic,330µF 6.3WV	
C311	ECEA1AKA221	Electrolytic,220µF 10WV	
C312	YECUS1H221JM	Ceramic,220pF50WV	ļ
C330	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	<u>L</u>
C331	ECEA1HKA3R3I	Electrolytic, 3.3µF 50WV	
C341	ECEA1HKAR47I	Electrolytic, 0.47µF 50WV	
C342	YECUS1H122KX	Ceramic,0.0012µF 50WV	
C344	ECEA1HKAR47I	Electrolytic, 0.47µF 50WV	
C345	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C348	YECUS1E104ZF	Ceramic, 0.1µF 25WV	1
C401	YECUS1H150JM	Ceramic,15pF 50WV	
C402	YECUS1H150JM	Ceramic,15pF 50WV	
C403	ECEA0JKA101I	Electrolytic,100µF 6.3WV	1
C404	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C408	YECUS1E223KX		
		Ceramic, 0.022µF 25WV	<u> </u>
C409	ECQV1H224JL2	Plastic Film, 0.22µF 50WV	<del>                                     </del>
C410	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C411	ECEA1AKA221	Electrolytic,220µF 10WV	-
2412	ECEA1AKA221	Electrolytic,220µF 10WV	<u> </u>
C413		Ceramic, 100pF 50WV	
C414	ECEA1AKA101I	Electrolytic,100µF 10WV	
C601	YECUS1H220JM	Ceramic,22pF 50WV	
C602	YECUS1H220JM	Ceramic,22pF 50WV	
2603	YECUS1C104KX	Ceramic,0.1µF 16WV	
2604	YECUS1H103KX	Ceramic, 0.01µF 50WV	
2605	ECEA0JKA331I	Electrolytic, 330µF 6.3WV	
2606	ECEA0JKA221I	Electrolytic,220µF 6.3WV	
2607	EECS5R5H473	Electrolytic, 0.047µF 5.5WV	
2608	YECUS1C104KX	Ceramic, 0.1µF 16WV	
2609	YECUS1C124KX	Ceramic, 0.12µF 16WV	
2610	YECUS1E104ZF	Ceramic, 0.1µF 25WV	<b> </b>
2611	YECUS1E104ZF	Ceramic, 0.1µF 25WV	1
2612	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
2613	YECUS1H221JM	Ceramic,220pF 50WV	_
615	YECUS1H180JM	Ceramic,18pF 50WV	<del>                                     </del>
2616	YECUS1H220JM	Ceramic, 22pF 50WV	
2650	YECUS1H2200M		-
		Ceramic, 0.01µF 50WV	
660	ECEA1HKA010I	Electrolytic, 1µF 50WV	
661	YECUS1H103KX	Ceramic, 0.01µF 50WV	
662	ECEA1HKA010I	Electrolytic,1µF 50WV	
2663	YECUS1C104KX	Ceramic,0.1µF 16WV	
2664	YECUS1C104KX	Ceramic,0.1µF 16WV	
665	ECEA0JKA220I	Electrolytic,22µF 6.3WV	
690	YECUS1H103KX	Ceramic,0.01µF 50WV	
701	ECEA1CKA101	Electrolytic,100µF 16WV	
702	ECEA1HKA4R7I	Electrolytic, 4.7µF 50WV	
703	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
704	YECUS1H103KX	Ceramic, 0.01µF 50WV	
	ECEA1HKAR47I	Electrolytic, 0.47µF 50WV	

Ref. No.	Part No.	Part Name & Description	Remark
			8
C706	YECUS1C104KX	Ceramic,0.1µF 16WV	
C707	ECA1AM471B	Electrolytic,470µF 10WV	
C709	ECA1AM331I	Electrolytic,330µF 10WV	
C710	ECA1CM102B	Electrolytic,1000µF 16WV	
C711	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C712	ECEA1CKA470I	Electrolytic,47pF 16WV	
C713	ECSF1VE475	Tantalum, 4.7µF 35WV	
C714	ECEAOJKA101I	Electrolytic, 100µF 6.3WV	
C716	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C718	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C719	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C720	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C721	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C722	ECEA1AKA221	Electrolytic,220µF 10WV	
C725	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C727	EEUFC1A820H	Electrolytic,82µF 10WV	
C728	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C729	ECEA1AKA221	Electrolytic, 220µF 10WV	
C810	ECEA0JKA220I	Electrolytic, 22µF 6.3WV	
C811	YECUS1H102KX	Ceramic,0.001µF 50WV	
C812	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C813	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C814	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C901	YECUS1H270JM	Ceramic, 27pF 50WV	
C902	YECUS1H470JM	Ceramic, 47pF 50WV	
C903	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C904	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C905	YECUS1H271JM	Ceramic, 270pF 50WV	
C906	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C907	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C909	YECUS1H471JM	Ceramic,470pF 50WV	
J530	YECUV2A103KX	Ceramic, 0.01µF 100WV	
J607	YECUS1H221JM	Ceramic, 220pF 50WV	
J608	YECUS1H103KX	Ceramic, 0.01µF 50WV	

DISPLAY BLOCK [E-8598A]
art No. Part Name & Descripti

Ref. No.	Part No.	Part Name & Description	Remark s
C905	YECUM2A683JN	Plastic Film, 0.068µF 100WV	
C906	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C907	ECEV1CA220SR	Electrolytic,22µF 16WV	
C910	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C920	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C921	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C923	YECUS1H681JM	Ceramic, 680pF 50WV	

# 1.4. Resistors

MAIN/MD INTERFACE BLOCK [E-6731A]

Ref. No.		Part Name & Description	Remark
R50	ERJ6GEYJ5R6	Chip, 5.6Ω 1/10W	
R52	ERJ8GEYJ101V	Chip,100Ω 1/8W	1
R53	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R58	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R201	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R202	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R204	ERJ6GEYJ822	Chip,8.2kΩ 1/10W	
R205	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R225	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R226	ERJ8GEYJ333V	Chip,33kΩ 1/8W	
R230	ERD25TJ101	Carbon, 100Ω 1/4W	
R231	ERJ6GEYJ561	Chip,560Ω 1/10W	
R235	ERD25TJ101	Carbon,100Ω 1/4W	
R236	ERJ6GEYJ561	Chip,560Ω 1/10W	
R240	ERJ6GEYJ681	Chip,680Ω 1/10W	
R241	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R242	ERJ6GEYJ681	Chip,680Ω 1/10W	
R243	ERJ6GEYJ103	Chip,10kΩ 1/10W	
R250	ERJ6GEYJ104	Chip,100kΩ 1/10W	
R301	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	

R302	Ref. No.	Part No.	Part Name & Description	Remark
R305 ERJ6GEYJ332 Chip, 3.3kΩ 1/10W R330 ERD25TJ101 Carbon, 100Ω 1/4W R331 ERJ6GEYJ561 Chip, 560Ω 1/10W R335 ERJ6GEYJ561 Chip, 560Ω 1/10W R346 ERJ6GEYJ561 Chip, 560Ω 1/10W R341 ERJ6GEYJ681 Chip, 680Ω 1/10W R341 ERJ6GEYJ681 Chip, 680Ω 1/10W R343 ERJ6GEYJ103 Chip, 10kΩ 1/10W R343 ERJ6GEYJ104 Chip, 10kΩ 1/10W R401 ERJ6GEYJ102 Chip, 10kΩ 1/10W R402 ERJ6GEYJ102 Chip, 10kΩ 1/10W R403 ERJ6GEYJ102 Chip, 10kΩ 1/10W R404 ERJ6GEYJ102 Chip, 10kΩ 1/10W R405 ERJ6GEYJ102 Chip, 10kΩ 1/10W R406 ERJ6GEYJ102 Chip, 10kΩ 1/10W R407 ERJ6GEYJ561 Chip, 560Ω 1/10W R408 ERJ6GEYJ561 Chip, 560Ω 1/10W R409 ERJ6GEYJ561 Chip, 560Ω 1/10W R409 ERJ6GEYJ561 Chip, 560Ω 1/10W R409 ERJ6GEYJ561 Chip, 7*RΩ 1/10W R600 ERJ6GEYJ73 Chip, 4*RΩ 1/10W R601 ERJ6GEYJ671 Chip, 4*RΩ 1/10W R602 ERJ6GEYJ73 Chip, 4*RΩ 1/10W R603 ERJ6GEYJ102 Chip, 10kΩ 1/10W R604 ERJ6GEYJ102 Chip, 10kΩ 1/10W R610 ERJ6GEYJ102 Chip, 10kΩ 1/10W R611 ERJ6GEYJ102 Chip, 10kΩ 1/10W R612 ERJ6GEYJ102 Chip, 10kΩ 1/10W R613 ERJ6GEYJ102 Chip, 10kΩ 1/10W R614 ERJ6GEYJ102 Chip, 10kΩ 1/10W R615 ERJ6GEYJ102 Chip, 10kΩ 1/10W R616 ERJ6GEYJ102 Chip, 10kΩ 1/10W R617 ERD25TJ102 Chip, 10kΩ 1/10W R618 ERJ6GEYJ102 Chip, 10kΩ 1/10W R619 ERJ6GEYJ102 Chip, 10kΩ 1/10W R620 ERJ6GEYJ102 Chip, 10kΩ 1/10W R631 ERJ6GEYJ102 Chip, 10kΩ 1/10W R641 ERJ6GEYJ102 Chip, 10kΩ 1/10W R652 ERJ6GEYJ102 Chip, 10kΩ 1/10W R653 ERJ6GEYJ102 Chip, 10kΩ 1/10W R664 ERJ6GEYJ102 Chip, 10kΩ 1/10W R679 CRJ6GEYJ102 Chip, 10kΩ 1/10W R619 ERJ6GEYJ103 Chip, 10kΩ 1/10W R620 ERJ6GEYJ103 Chip, 10kΩ 1/10W R621 ERJ6GEYJ103 Chip, 10kΩ 1/10W R622 ERJ6GEYJ104 Chip, 10kΩ 1/10W R630 ERJ6GEYJ103 Chip, 10kΩ 1/10W R651 ERJ6GEYJ103 Chip, 10kΩ 1/10W R652 ERJ6GEYJ104 Chip, 10kΩ 1/10W R653 ERJ6GEYJ103 Chip, 10kΩ 1/10W R650 ERJ6GEYJ104 Chip, 10kΩ 1/10W R651 ERJ6GEYJ103 Chip, 10kΩ 1/10W R652 ERJ6GEYJ103 Chip, 10kΩ 1/10W R653 ERJ6GEYJ104 Chip, 10kΩ 1/10W R654 ERJ6GEYJ103 Chip, 10kΩ 1/10W R655 ERJ6GEYJ103 Chip, 10kΩ 1/10W R666 ERJ6GEYJ103 Chip, 10kΩ 1/10W R676 ERJ6GEYJ103 Chip, 10kΩ 1/10W R686 ERJ6GEYJ103 Chip, 10kΩ 1/10W R686 ERJ6GEYJ103 Chip, 10kΩ 1/10W R686 ERJ		ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	-
R330 ERD25TJ101 Carbon,100Ω 1/4W R331 ERJ6GEYJ551 Chip,560Ω 1/10W R335 ERJ5GEYJ101 Carbon,100Ω 1/4W R336 ERJ6GEYJ561 Chip,560Ω 1/10W R340 ERJ6GEYJ561 Chip,560Ω 1/10W R341 ERJ6GEYJ103 Chip,1680Ω 1/10W R342 ERJ6GEYJ103 Chip,10kΩ 1/10W R343 ERJ6GEYJ103 Chip,10kΩ 1/10W R340 ERJ6GEYJ103 Chip,10kΩ 1/10W R401 ERJ6GEYJ102 Chip,10kΩ 1/10W R401 ERJ6GEYJ102 Chip,1.5kΩ 1/10W R401 ERJ6GEYJ102 Chip,1.5kΩ 1/10W R402 ERJ6GEYJ102 Chip,1.5kΩ 1/10W R403 ERJ6GEYJ102 Chip,1.5kΩ 1/10W R404 ERJ6GEYJ102 Chip,1.8kΩ 1/10W R407 ERJ6GEYJ473 Chip,47kΩ 1/10W R408 ERJ6GEYJ473 Chip,47kΩ 1/10W R408 ERJ6GEYJ473 Chip,47kΩ 1/10W R409 ERJ6GEYJ473 Chip,47kΩ 1/10W R601 ERJ6GEYJ473 Chip,47kΩ 1/10W R602 ERJ6GEYJ473 Chip,47kΩ 1/10W R603 ERJ6GEYJ102 Chip,1kΩ 1/10W R604 ERJ6GEYJ102 Chip,1kΩ 1/10W R610 ERJ6GEYJ102 Chip,1kΩ 1/10W R611 ERJ6GEYJ102 Chip,1kΩ 1/10W R612 ERJ6GEYJ102 Chip,1kΩ 1/10W R614 ERJ6GEYJ102 Chip,1kΩ 1/10W R615 ERJ6GEYJ102 Chip,1kΩ 1/10W R617 ERJ6GEYJ102 Chip,1kΩ 1/10W R618 ERJ6GEYJ102 Chip,1kΩ 1/10W R619 ERJ6GEYJ102 Chip,1kΩ 1/10W R618 ERJ6GEYJ102 Chip,1kΩ 1/10W R619 ERJ6GEYJ102 Chip,1kΩ 1/10W R619 ERJ6GEYJ102 Chip,1kΩ 1/10W R611 ERJ6GEYJ102 Chip,1kΩ 1/10W R612 ERJ6GEYJ102 Chip,1kΩ 1/10W R613 ERJ6GEYJ102 Chip,1kΩ 1/10W R614 ERJ6GEYJ102 Chip,1kΩ 1/10W R615 ERJ6GEYJ102 Chip,1kΩ 1/10W R616 ERJ6GEYJ102 Chip,1kΩ 1/10W R617 ERD25TJ102 Chip,1kΩ 1/10W R618 ERJ6GEYJ102 Chip,1kΩ 1/10W R620 ERJ6GEYJ102 Chip,1kΩ 1/10W R621 ERJ6GEYJ102 Chip,1kΩ 1/10W R621 ERJ6GEYJ102 Chip,1kΩ 1/10W R622 ERJ6GEYJ102 Chip,1kΩ 1/10W R633 ERJ6GEYJ102 Chip,1kΩ 1/10W R642 ERJ6GEYJ102 Chip,1kΩ 1/10W R651 ERJ6GEYJ102 Chip,1kΩ 1/10W R652 ERJ6GEYJ102 Chip,1kΩ 1/10W R663 ERJ6GEYJ102 Chip,1kΩ 1/10W R664 ERJ6GEYJ103 Chip,1kΩ 1/10W R678 ERJ6GEYJ103 Chip,1kΩ 1/10W R686 ERJ6GEYJ103 Chip,1kΩ 1/10W R6	R304	ERJ6GEYJ822		
R331   RJ6GEYJ561   Chip, 560Ω 1/10W   R335   ERD25TJ101   Carbon, 100Ω 1/4W   R336   ERJ6GEYJ561   Chip, 560Ω 1/10W   R340   RJ6GEYJ681   Chip, 560Ω 1/10W   R341   ERJ6GEYJ681   Chip, 680Ω 1/10W   R342   ERJ6GEYJ103   Chip, 10kΩ 1/10W   R343   ERJ6GEYJ104   Chip, 10kΩ 1/10W   R343   ERJ6GEYJ104   Chip, 10kΩ 1/10W   R350   ERJ6GEYJ102   Chip, 1.5kΩ 1/10W   R350   ERJ6GEYJ102   Chip, 1.5kΩ 1/10W   R360   ERJ6GEYJ102   Chip, 1.5kΩ 1/10W   R401   ERJ6GEYJ102   Chip, 1.5kΩ 1/10W   R402   ERJ6GEYJ102   Chip, 1.5kΩ 1/10W   R403   ERJ6GEYJ102   Chip, 1.5kΩ 1/10W   R404   ERJ6GEYJ162   Chip, 1.5kΩ 1/10W   R405   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R407   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R408   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R603   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R604   ERJ6GEYJ473   Chip, 47kΩ 1/10W   Chip, 1.5kΩ 1/10W   Chip, 1.5kΩ 1/10W   R604   ERJ6GEYJ473   Chip, 47kΩ 1/10W   Chip, 1.5kΩ 1/10W	R305	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R335 ER025TJ101 Carbon,100Ω 1/4W R336 ERJ6GEYJ561 Chip,560Ω 1/10W R340 ERJ6GEYJ103 Chip,160Ω 1/10W R341 ERJ6GEYJ103 Chip,160Ω 1/10W R342 ERJ6GEYJ103 Chip,160Ω 1/10W R343 ERJ6GEYJ104 Chip,160Ω 1/10W R343 ERJ6GEYJ104 Chip,100Ω 1/10W R340 ERJ6GEYJ104 Chip,1.5 MΩ 1/10W R401 ERJ6GEYJ102 Chip,1.5 MΩ 1/10W R402 ERJ6GEYJ102 Chip,1.5 MΩ 1/10W R403 ERJ6GEYJ102 Chip,1.8 MΩ 1/10W R406 ERJ6GEYJ182 Chip,1.8 MΩ 1/10W R407 ERJ6GEYJ182 Chip,1.8 MΩ 1/10W R408 ERJ6GEYJ473 Chip,47 MΩ 1/10W R409 ERJ6GEYJ473 Chip,47 MΩ 1/10W R600 ERJ6GEYJ473 Chip,47 MΩ 1/10W R601 ERJ6GEYJ473 Chip,47 MΩ 1/10W R602 ERJ6GEYJ473 Chip,47 MΩ 1/10W R603 ERJ6GEYJ473 Chip,47 MΩ 1/10W R610 ERJ6GEYJ473 Chip,1 MΩ 1/10W R611 ERJ6GEYJ102 Chip,1 MΩ 1/10W R612 ERJ6GEYJ102 Chip,1 MΩ 1/10W R614 ERJ6GEYJ102 Chip,1 MΩ 1/10W R615 ERJ6GEYJ102 Chip,1 MΩ 1/10W R616 ERJ6GEYJ102 Chip,1 MΩ 1/10W R617 ERJ5GEYJ102 Chip,1 MΩ 1/10W R618 ERJ6GEYJ102 Chip,1 MΩ 1/10W R619 ERJ6GEYJ102 Chip,1 MΩ 1/10W R619 ERJ6GEYJ102 Chip,1 MΩ 1/10W R610 ERJ6GEYJ102 Chip,1 MΩ 1/10W R611 ERJ6GEYJ102 Chip,1 MΩ 1/10W R612 ERJ6GEYJ102 Chip,1 MΩ 1/10W R613 ERJ6GEYJ102 Chip,1 MΩ 1/10W R614 ERJ6GEYJ102 Chip,1 MΩ 1/10W R615 ERJ6GEYJ102 Chip,1 MΩ 1/10W R616 ERJ6GEYJ102 Chip,1 MΩ 1/10W R617 ERD25TJ102 Chip,1 MΩ 1/10W R618 ERJ6GEYJ102 Chip,1 MΩ 1/10W R619 ERJ6GEYJ102 Chip,1 MΩ 1/10W R620 ERJ6GEYJ102 Chip,1 MΩ 1/10W R621 ERJ6GEYJ102 Chip,1 MΩ 1/10W R621 ERJ6GEYJ102 Chip,1 MΩ 1/10W R622 ERJ6GEYJ102 Chip,1 MΩ 1/10W R623 ERJ6GEYJ104 Chip,1 MΩ 1/10W R631 ERJ6GEYJ103 Chip,1 MΩ 1/10W R631 ERJ6GEYJ104 Chip,1 MΩ 1/10W R632 ERJ6GEYJ104 Chip,1 MΩ 1/10W R634 ERJ6GEYJ103 Chip,1 MΩ 1/10W R645 ERJ6GEYJ104 Chip,1 MΩ 1/10W R651 ERJ6GEYJ103 Chip,1 MΩ 1/10W R652 ERJ6GEYJ104 Chip,1 MΩ 1/10W R653 ERJ6GEYJ104 Chip,1 MΩ 1/10W R654 ERJ6GEYJ103 Chip,1 MΩ 1/10W R655 ERJ6GEYJ104 Chip,1 MΩ 1/10W R656 ERJ6GEYJ103 Chip,3 MΩ 1/10W R666 ERJ6GEYJ103 Chip,3 MΩ 1/10W R667 ERJ6GEYJ103 Chip,3 MΩ 1/10W R668 ERJ6GEYJ103 Chip,1 MΩ 1/10W R669 ERJ6GEYJ103 Chip,3 MΩ 1/10W R660 ERJ6GEYJ103 Chip,3 MΩ 1/10W R660 ERJ6GEYJ103 Chip,1 MΩ 1/10W R660 ERJ6GEYJ103	R330	ERD25TJ101	Carbon,100Ω 1/4W	
R336 ERJ6GEYJ561 Chip,5600 1/10W R340 ERJ6GEYJ681 Chip,6800 1/10W R341 ERJ6GEYJ103 Chip,10k0 1/10W R342 ERJ6GEYJ681 Chip,6800 1/10W R343 ERJ6GEYJ103 Chip,10k0 1/10W R344 ERJ6GEYJ103 Chip,10k0 1/10W R350 ERJ6GEYJ152 Chip,1.5k0 1/10W R401 ERJ6GEYJ152 Chip,1.5k0 1/10W R402 ERJ6GEYJ162 Chip,2.2k0 1/10W R403 ERJ6GEYJ102 Chip,1.5k0 1/10W R406 ERJ6GEYJ102 Chip,1.8k0 1/10W R407 ERJ6GEYJ102 Chip,1.600 1/10W R408 ERJ6GEYJ102 Chip,1.600 1/10W R409 ERJ6GEYJ473 Chip,47k0 1/10W R609 ERJ6GEYJ473 Chip,47k0 1/10W R601 ERJ6GEYJ473 Chip,47k0 1/10W R602 ERJ6GEYJ473 Chip,47k0 1/10W R603 ERJ6GEYJ473 Chip,47k0 1/10W R604 ERJ6GEYJ473 Chip,47k0 1/10W R607 ERJ6GEYJ473 Chip,47k0 1/10W R610 ERJ6GEYJ02 Chip,1k0 1/10W R611 ERJ6GEYJ02 Chip,1k0 1/10W R611 ERJ6GEYJ02 Chip,1k0 1/10W R612 ERJ6GEYJ02 Chip,1k0 1/10W R613 ERJ6GEYJ02 Chip,1k0 1/10W R614 ERJ6GEYJ02 Chip,1k0 1/10W R615 ERJ6GEYJ02 Chip,1k0 1/10W R616 ERJ6GEYJ02 Chip,1k0 1/10W R617 ERD25TJ102 Chip,1k0 1/10W R619 ERJ6GEYJ102 Chip,1k0 1/10W R619 ERJ6GEYJ102 Chip,1k0 1/10W R620 ERJ6GEYJ102 Chip,1k0 1/10W R621 ERJ6GEYJ102 Chip,1k0 1/10W R621 ERJ6GEYJ102 Chip,1k0 1/10W R622 ERJ6GEYJ102 Chip,1k0 1/10W R631 ERJ6GEYJ102 Chip,1k0 1/10W R632 ERJ6GEYJ102 Chip,1k0 1/10W R631 ERJ6GEYJ102 Chip,1k0 1/10W R632 ERJ6GEYJ103 Chip,1k0 1/10W R630 ERJ6GEYJ104 Chip,1k0 1/10W R631 ERJ6GEYJ104 Chip,1k0 1/10W R632 ERJ6GEYJ104 Chip,1k0 1/10W R633 ERJ6GEYJ104 Chip,1k0 1/10W R634 ERJ6GEYJ104 Chip,1k0 1/10W R635 ERJ6GEYJ104 Chip,10k0 1/10W R645 ERJ6GEYJ104 Chip,10k0 1/10W R651 ERJ6GEYJ104 Chip,10k0 1/10W R652 ERJ6GEYJ103 Chip,3k0 1/10W R653 ERJ6GEYJ104 Chip,10k0 1/10W R654 ERJ6GEYJ105 Chip,1k0 1/10W R655 ERJ6GEYJ104 Chip,10k0 1/10W R656 ERJ6GEYJ105 Chip,1k0 1/10W R657 ERJ6GEYJ104 Chip,10k0 1/10W R658 ERJ6GEYJ105 Chip,1k0 1/10W R659 ERJ6GEYJ104 Chip,10k0 1/10W R659 ERJ6GEYJ105 Chip,1k0 1/10W R660 ERJ6GEYJ105 Chip,1k0 1/10W R661 ERJ6GEYJ105 Chip,1k0 1/10W R662 ERJ6GEYJ105 Chip,1k0 1/10W R663 ERJ6GEYJ105 Chip,1k0 1/10W R666 ERJ6GEYJ105 Chip,1k0 1/10W R666 ERJ6GEYJ105 Chip,1k0 1/10W R667 ERJ6GEYJ105 Chip,1k0 1/10W R668	R331	ERJ6GEYJ561	Chip,560Ω 1/10W	
R340 ERJ6GEYJ681 Chip, 680Ω 1/10W R341 ERJ6GEYJ103 Chip, 10kΩ 1/10W R342 ERJ6GEYJ103 Chip, 10kΩ 1/10W R343 ERJ6GEYJ103 Chip, 10kΩ 1/10W R350 ERJ6GEYJ104 Chip, 10kΩ 1/10W R401 ERJ6GEYJ102 Chip, 1.8kΩ 1/10W R402 ERJ6GEYJ222 Chip, 1.8kΩ 1/10W R402 ERJ6GEYJ222 Chip, 1.8kΩ 1/10W R403 ERJ6GEYJ102 Chip, 1.0kΩ 1/10W R404 ERJ6GEYJ322 Chip, 1.8kΩ 1/10W R407 ERJ6GEYJ321 Chip, 1.8kΩ 1/10W R407 ERJ6GEYJ321 Chip, 1.8kΩ 1/10W R408 ERJ6GEYJ473 Chip, 47kΩ 1/6W R409 ERJ6GEYJ473 Chip, 47kΩ 1/10W R600 ERJ6GEYJ473 Chip, 47kΩ 1/10W R601 ERJ6GEYJ473 Chip, 47kΩ 1/10W R602 ERJ6GEYJ473 Chip, 47kΩ 1/10W R604 ERJ6GEYJ473 Chip, 47kΩ 1/10W R605 ERJ6GEYJ473 Chip, 47kΩ 1/10W R610 ERJ6GEYJ102 Chip, 1kΩ 1/10W R611 ERJ6GEYJ102 Chip, 1kΩ 1/10W R614 ERJ8GEYJ681V Chip, 1kΩ 1/10W R615 ERJ6GEYJ102 Chip, 1kΩ 1/10W R616 ERJ6GEYJ102 Chip, 1kΩ 1/10W R617 ERJ6GEYJ102 Chip, 1kΩ 1/10W R618 ERJ6GEYJ102 Chip, 1kΩ 1/10W R619 ERJ6GEYJ102 Chip, 1kΩ 1/10W R620 ERJ6GEYJ102 Chip, 1kΩ 1/10W R630 ERJ6GEYJ102 Chip, 1kΩ 1/10W R621 ERJ8GEYJ102 Chip, 1kΩ 1/10W R622 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ102 Chip, 1kΩ 1/10W R624 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ103 Chip, 1kΩ 1/10W R631 ERJ6GEYJ103 Chip, 1kΩ 1/10W R631 ERJ6GEYJ103 Chip, 1kΩ 1/10W R632 ERJ6GEYJ103 Chip, 1kΩ 1/10W R634 ERJ6GEYJ103 Chip, 1kΩ 1/10W R635 ERJ6GEYJ103 Chip, 1kΩ 1/10W R642 ERJ6GEYJ103 Chip, 1kΩ 1/10W R651 ERJ6GEYJ103 Chip, 1kΩ 1/10W R661 ERJ6GEYJ103 Chip, 1kΩ 1/10W R661 ERJ6GEYJ103 Chip, 1kΩ 1/10W R662 ERJ6GEYJ103 Chip, 1kΩ 1/10W R663 ERJ6GEYJ103 Chip, 1kΩ 1/10W R664 ERJ6GEYJ103 Chip, 1kΩ 1/10W R666 ERJ6GEYJ103 Chip, 1kΩ 1/10W R666 ER				
R341 ERJ6GEYJ103 Chip,10kΩ 1/10W R342 ERJ6GEYJ104 Chip,680Ω 1/10W R343 ERJ6GEYJ104 Chip,10kΩ 1/10W R350 ERJ6GEYJ104 Chip,10kΩ 1/10W R401 ERJ6GEYJ104 Chip,10kΩ 1/10W R401 ERJ6GEYJ100 Chip,10kΩ 1/10W R403 ERJ6GEYJ100 Chip,10kΩ 1/10W R406 ERJ6GEYJ100 Chip,10kΩ 1/10W R406 ERJ6GEYJ102 Chip,1.8kΩ 1/10W R407 ERJ6GEYJ473 Chip,47kΩ 1/10W R408 ERJ8GEYJ473V Chip,47kΩ 1/10W R409 ERJ6GEYJ473 Chip,47kΩ 1/10W R601 ERJ6GEYJ473 Chip,47kΩ 1/10W R602 ERJ6GEYJ473 Chip,47kΩ 1/10W R603 ERJ6GEYJ473 Chip,47kΩ 1/10W R604 ERJ6GEYJ473 Chip,47kΩ 1/10W R607 ERJ6GEYJ473 Chip,47kΩ 1/10W R609 ERJ6GEYJ473 Chip,47kΩ 1/10W R610 ERJ6GEYJ102 Chip,1kΩ 1/10W R611 ERJ6GEYJ102 Chip,1kΩ 1/10W R611 ERJ6GEYJ102 Chip,1kΩ 1/10W R614 ERJ8GEYJ61V Chip,1kΩ 1/10W R615 ERJ6GEYJ102 Chip,1kΩ 1/10W R6161 ERJ6GEYJ102 Chip,1kΩ 1/10W R617 ERD25TJ102 Chip,1kΩ 1/10W R618 ERJ6GEYJ102 Chip,1kΩ 1/10W R619 ERJ6GEYJ102 Chip,1kΩ 1/10W R620 ERJ6GEYJ102 Chip,1kΩ 1/10W R621 ERJ6GEYJ102 Chip,1kΩ 1/10W R622 ERJ6GEYJ102 Chip,1kΩ 1/10W R623 ERJ6GEYJ102 Chip,1kΩ 1/10W R624 ERJ6GEYJ102 Chip,1kΩ 1/10W R625 ERJ6GEYJ102 Chip,1kΩ 1/10W R620 ERJ6GEYJ102 Chip,1kΩ 1/10W R631 ERJ6GEYJ102 Chip,1kΩ 1/10W R632 ERJ6GEYJ104 Chip,1kΩ 1/10W R633 ERJ6GEYJ104 Chip,1kΩ 1/10W R641 ERJ6GEYJ104 Chip,1kΩ 1/10W R652 ERJ6GEYJ104 Chip,1kΩ 1/10W R653 ERJ6GEYJ104 Chip,1kΩ 1/10W R653 ERJ6GEYJ104 Chip,1kΩ 1/10W R654 ERJ6GEYJ104 Chip,1kΩ 1/10W R655 ERJ6GEYJ104 Chip,1kΩ 1/10W R666 ERJ6GEYJ104 Chip,1kΩ 1/10W R661 ERJ6GEYJ104 Chip,1kΩ 1/10W R652 ERJ6GEYJ104 Chip,1kΩ 1/10W R653 ERJ6GEYJ104 Chip,1kΩ 1/10W R654 ERJ6GEYJ103 Chip,1kΩ 1/10W R655 ERJ6GEYJ104 Chip,1kΩ 1/10W R656 ERJ6GEYJ103 Chip,1kΩ 1/10W R657 ERJ6GEYJ104 Chip,1kΩ 1/10W R658 ERJ6GEYJ103 Chip,1kΩ 1/10W R659 ERJ6GEYJ103 Chip,1kΩ 1/10W R660 ERJ6GEYJ103 Chip,1kΩ 1/10W R660 ERJ6GEYJ103 Chip,1kΩ 1/10W R661 ERJ6GEYJ103 Chip,1kΩ 1/10W R666 ERJ6GEYJ103 Chip,1kΩ 1/10W R667 ERJ6GEYJ103 Chip,1kΩ 1/10W R668 ERJ6GEYJ103 Chip,1kΩ 1/10W R669 ERJ6GEYJ103 Chip,1kΩ 1/10W R660 ERJ6GEYJ103 Chip,1kΩ 1/10W R660 ERJ6GEYJ103 Chip,1kΩ 1/10W R660 ERJ6GEYJ103 Chip,1kΩ 1/10W R660 ERJ6		<del></del>		
R342 ERJ6GEYJ681 Chip, 680Ω 1/10W R343 ERJ6GEYJ103 Chip, 10kΩ 1/10W R3401 ERJ6GEYJ152 Chip, 1.5kΩ 1/10W R401 ERJ6GEYJ152 Chip, 1.5kΩ 1/10W R402 ERJ6GEYJ102 Chip, 1.5kΩ 1/10W R403 ERJ6GEYJ102 Chip, 1.8kΩ 1/10W R406 ERJ6GEYJ103 Chip, 1.6kΩ 1/10W R407 ERJ6GEYJ103 Chip, 1.6kΩ 1/10W R408 ERJ6GEYJ103 Chip, 560Ω 1/10W R408 ERJ6GEYJ473 Chip, 47kΩ 1/10W R409 ERJ6GEYJ473 Chip, 47kΩ 1/10W R600 ERJ6GEYJ473 Chip, 47kΩ 1/10W R601 ERJ6GEYJ473 Chip, 47kΩ 1/10W R602 ERJ6GEYJ473 Chip, 47kΩ 1/10W R603 ERJ6GEYJ473 Chip, 47kΩ 1/10W R604 ERJ6GEYJ473 Chip, 47kΩ 1/10W R605 ERJ6GEYJ102 Chip, 1kΩ 1/10W R610 ERJ6GEYJ102 Chip, 1kΩ 1/10W R611 ERJ6GEYJ102 Chip, 1kΩ 1/10W R611 ERJ6GEYJ102 Chip, 1kΩ 1/10W R612 ERJ6GEYJ102 Chip, 1kΩ 1/10W R613 ERJ6GEYJ102 Chip, 1kΩ 1/10W R614 ERJ6GEYJ102 Chip, 1kΩ 1/10W R619 ERJ6GEYJ102 Chip, 1kΩ 1/10W R620 ERJ6GEYJ102 Chip, 1kΩ 1/10W R621 ERJ6GEYJ102 Chip, 1kΩ 1/10W R622 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ102 Chip, 1kΩ 1/10W R624 ERJ6GEYJ102 Chip, 1kΩ 1/10W R625 ERJ6GEYJ102 Chip, 1kΩ 1/10W R626 ERJ6GEYJ102 Chip, 1kΩ 1/10W R627 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ103 Chip, 1kΩ 1/10W R631 ERJ6GEYJ104 Chip, 1kΩ 1/10W R631 ERJ6GEYJ103 Chip, 1kΩ 1/10W R631 ERJ6GEYJ103 Chip, 1kΩ 1/10W R631 ERJ6GEYJ104 Chip, 1kΩ 1/10W R632 ERJ6GEYJ104 Chip, 1kΩ 1/10W R634 ERJ6GEYJ103 Chip, 1kΩ 1/10W R643 ERJ6GEYJ103 Chip, 1kΩ 1/10W R644 ERJ6GEYJ103 Chip, 1kΩ 1/10W R651 ERJ6GEYJ103 Chip, 1kΩ 1/10W R651 ERJ6GEYJ103 Chip, 1kΩ 1/10W R652 ERJ6GEYJ103 Chip, 1kΩ 1/10W R653 ERJ6GEYJ103 Chip, 1kΩ 1/10W R654 ERJ6GEYJ103 Chip, 1kΩ 1/10W R655 ERJ6GEYJ104 Chip, 10kΩ 1/10W R656 ERJ6GEYJ103 Chip, 1kΩ 1/10W R651 ERJ6GEYJ103 Chip, 1kΩ 1/10W R666 ERJ6GEYJ103 Chip, 1kΩ 1/10W R666 ERJ6GEYJ103 Chip, 1kΩ 1/10W R667 ERJ6GEYJ103 Chip, 1kΩ 1/10W R668 ERJ6GEYJ104 Chip, 10kΩ 1/10W R669 ERJ6GEYJ103 Chip, 1kΩ 1/10W R660 ERJ6GEYJ103 Chip, 1kΩ 1/10W R660 ERJ6GEYJ104 Chip, 10kΩ 1/10W R660 ER				
R343   ERJ6GEXJ103   Chip,10kΩ 1/10W   R350   ERJ6GEXJ122   Chip,1.5kΩ 1/10W   R401   ERJ6GEXJ222   Chip,1.5kΩ 1/10W   R402   ERJ6GEXJ222   Chip,2.2kΩ 1/10W   R402   ERJ6GEXJ222   Chip,2.2kΩ 1/10W   R403   ERJ6GEXJ251   Chip,1.8kΩ 1/10W   R406   ERJ6GEXJ351   Chip,1.8kΩ 1/10W   R407   ERJ6GEXJ473   Chip,47kΩ 1/10W   R408   ERJ6GEXJ473   Chip,47kΩ 1/10W   R408   ERJ6GEXJ473   Chip,47kΩ 1/10W   R409   ERJ6GEXJ473   Chip,47kΩ 1/10W   R603   ERJ6GEXJ473   Chip,47kΩ 1/10W   R604   ERJ6GEXJ473   Chip,47kΩ 1/10W   R607   ERJ6GEXJ473   Chip,47kΩ 1/10W   R608   ERJ6GEXJ473   Chip,47kΩ 1/10W   R610   ERJ6GEXJ102   Chip,1kΩ 1/10W   R611   ERJ6GEXJ102   Chip,1kΩ 1/10W   Chip,1kΩ 1/10W   R612   ERJ6GEXJ102   Chip,1kΩ 1/10W   R613   ERJ6GEXJ612   Chip,1kΩ 1/10W   Chip,1kΩ 1/10W   R614   ERJ6GEXJ612   Chip,1kΩ 1/10W   Chip,1kΩ 1/10W   R615   ERJ6GEXJ102   Chip,1kΩ 1/10W		t		
R350 ERJ6GEYJ104 Chip,100kΩ 1/10W R401 RNJ6GEYJ152 Chip,2.2kΩ 1/10W R403 ERJ6GEYJ100 Chip,10Ω 1/10W R406 ERJ6GEYJ182 Chip,2.2kΩ 1/10W R406 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R407 ERJ6GEYJ373 Chip,47kΩ 1/10W R408 ERJ8GEYJ473 Chip,47kΩ 1/10W R609 ERJ6GEYJ473 Chip,47kΩ 1/10W R601 ERJ6GEYJ473 Chip,47kΩ 1/10W R602 ERJ6GEYJ473 Chip,47kΩ 1/10W R603 ERJ6GEYJ473 Chip,47kΩ 1/10W R604 ERJ6GEYJ473 Chip,47kΩ 1/10W R607 ERJ6GEYJ473 Chip,47kΩ 1/10W R609 ERJ6GEYJ102 Chip,1kΩ 1/10W R610 ERJ6GEYJ102 Chip,1kΩ 1/10W R611 ERJ6GEYJ102 Chip,1kΩ 1/10W R612 ERJ6GEYJ102 Chip,1kΩ 1/10W R613 ERJ6GEYJ102 Chip,1kΩ 1/10W R614 ERJ6GEYJ102 Chip,1kΩ 1/10W R615 ERJ6GEYJ102 Chip,1kΩ 1/10W R6161 ERJ6GEYJ102 Chip,1kΩ 1/10W R617 ERD25TJ102 Chip,1kΩ 1/10W R618 ERJ6GEYJ102 Chip,1kΩ 1/10W R619 ERJ6GEYJ102 Chip,1kΩ 1/10W R620 ERJ6GEYJ102 Chip,1kΩ 1/10W R621 ERJ6GEYJ102 Chip,1kΩ 1/10W R622 ERJ6GEYJ102 Chip,1kΩ 1/10W R623 ERJ6GEYJ102 Chip,1kΩ 1/10W R623 ERJ6GEYJ102 Chip,1kΩ 1/10W R623 ERJ6GEYJ102 Chip,1kΩ 1/10W R624 ERJ6GEYJ102 Chip,1kΩ 1/10W R633 ERJ6GEYJ102 Chip,1kΩ 1/10W R631 ERJ6GEYJ103 Chip,1kΩ 1/10W R632 ERJ6GEYJ104 Chip,18kΩ 1/10W R634 ERJ6GEYJ103 Chip,1kΩ 1/10W R635 ERJ6GEYJ104 Chip,18kΩ 1/10W R642 ERJ6GEYJ104 Chip,18kΩ 1/10W R643 ERJ6GEYJ104 Chip,18kΩ 1/10W R645 ERJ6GEYJ104 Chip,10kΩ 1/10W R646 ERJ6GEYJ104 Chip,10kΩ 1/10W R646 ERJ6GEYJ104 Chip,10kΩ 1/10W R651 ERJ6GEYJ104 Chip,10kΩ 1/10W R664 ERJ6GEYJ02 Chip,2kΩ 1/10W R665 ERJ6GEYJ02 Chip,3kΩ 1/10W R666 ERJ6GEYJ02 Chip,3kΩ 1/10W R666 ERJ6GEYJ02 Chip,3kΩ 1/10W R666 ERJ6GEYJ02 Chip,3kΩ 1/10W R667 ERJ6GEYJ02 Chip,3kΩ 1/10W R668 ERJ6GEYJ02 Chip,3kΩ 1/10W R669 ERJ6GEYJ02 Chip,1kΩ 1/10W R660 ERJ6GEYJ02 Chip,2kΩ 1/10W R661 ERJ6GEYJ02 Chip,1kΩ 1/10W R662 ERJ6GEYJ03 Chip,3kΩ 1/10W R663 ERJ6GEYJ03 Chip,3kΩ 1/10W R666 ERJ6GEYJ03 Chip,3kΩ 1/10W R669 ERJ6GEYJ02 Chip,2kΩ 1/10W R660 ERJ6GEYJ03 Chip,3kΩ 1/10W R660 ERJ6GEYJ03 Chip,3kΩ 1/10W R660 ERJ6GEYJ03 Chip,		<del>t</del>		
R401         ERJ6GEYJ152         Chip,1.5kΩ 1/10W           R402         ERJ6GEYJ222         Chip,2.2kΩ 1/10W           R406         ERJ6GEYJ182         Chip,1.0Ω 1/10W           R407         ERJ6GEYJ182         Chip,1.8kΩ 1/10W           R407         ERJ6GEYJ473         Chip,47kΩ 1/10W           R408         ERJ8GEYJ473         Chip,47kΩ 1/10W           R603         ERJ6GEYJ473         Chip,47kΩ 1/10W           R604         ERJ6GEYJ473         Chip,47kΩ 1/10W           R607         ERJ6GEYJ102         Chip,1kΩ 1/10W           R609         ERJ6GEYJ102         Chip,1kΩ 1/10W           R610         ERJ6GEYJ102         Chip,1kΩ 1/10W           R611         ERJ6GEYJ102         Chip,1kΩ 1/10W           R612         ERJ6GEYJ102         Chip,1kΩ 1/10W           R613         ERJ6GEYJ102         Chip,1kΩ 1/10W           R618         ERJ6GEYJ102         Chip,1kΩ 1/10W           R619         ERJ6GEYJ102         Chip,1kΩ 1/10W           R620         ERJ6GEYJ102         Chip,1kΩ 1/10W           R621         ERJ6GEYJ102         Chip,1kΩ 1/10W           R622         ERJ6GEYJ102         Chip,1kΩ 1/10W           R630         ERJ6GEYJ102         Chip,1kΩ 1/10W				
R403				
R406         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R407         ERJ6GEYJ561         Chip, 560Ω 1/10W           R408         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R409         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R601         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R607         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R607         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R614         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R616         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ132         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ3473         Chip,	R402	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R407         ERJ6GEYJ561         Chip, 560Ω 1/10W           R408         ERJ6GEYJ473         Chip, 47kΩ 1/8W           R409         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R603         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R604         ERJ6GEYJ473         Chip, 1kΩ 1/10W           R607         ERJ6GEYJ02         Chip, 1kΩ 1/10W           R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R614         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R616         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERD25TJ102         Chip, 1kΩ 1/10W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R630         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/1	R403	ERJ6GEYJ100	Chip,10Ω 1/10W	
R408   ERJ8GEYJ473V   Chip, 47kΩ 1/10W   R409   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R603   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R604   ERJ6GEYJ473   Chip, 47kΩ 1/10W   R607   ERJ6GEYJ473   Chip, 14kΩ 1/10W   R609   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R610   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R611   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R611   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R612   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R615   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R6161   ERJ6GEYJ102   Chip, 1kΩ 1/10W   R617   ERD25TJ102   Chip, 1kΩ 1/10W   R618   ERJ6GEYJ102   Chip, 1kΩ 1/10W   Chip, 1kΩ 1/10W   R619   ERJ6GEYJ102   Chip, 1kΩ 1/10W   Chip, 1kΩ 1/	R406	ERJ6GEYJ182		
R409 ERJ6GEYJ473 Chip, 47kΩ 1/10W R603 ERJ6GEYJ473 Chip, 47kΩ 1/10W R607 ERJ6GEYJ473 Chip, 47kΩ 1/10W R609 ERJ6GEYJ102 Chip, 1kΩ 1/10W R610 ERJ6GEYJ102 Chip, 1kΩ 1/10W R611 ERJ6GEYJ102 Chip, 1kΩ 1/10W R614 ERJ6GEYJ102 Chip, 1kΩ 1/10W R615 ERJ6GEYJ102 Chip, 1kΩ 1/10W R616 ERJ6GEYJ102 Chip, 1kΩ 1/10W R617 ERD25TJ102 Carbon, 1kΩ 1/4W R618 ERJ6GEYJ102 Chip, 1kΩ 1/10W R619 ERJ6GEYJ102 Chip, 1kΩ 1/10W R620 ERJ6GEYJ102 Chip, 1kΩ 1/10W R621 ERJ8GEYJ102 Chip, 1kΩ 1/10W R622 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ102 Chip, 1kΩ 1/10W R633 ERJ6GEYJ102 Chip, 1kΩ 1/10W R630 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ102 Chip, 1kΩ 1/10W R630 ERJ6GEYJ102 Chip, 1kΩ 1/10W R631 ERJ6GEYJ104 Chip, 1kΩ 1/10W R632 ERJ6GEYJ104 Chip, 1kΩ 1/10W R633 ERJ6GEYJ104 Chip, 1kΩ 1/10W R644 ERJ6GEYJ104 Chip, 1kΩ 1/10W R654 ERJ6GEYJ104 Chip, 1kΩ 1/10W R645 ERJ6GEYJ104 Chip, 1kΩ 1/10W R646 ERJ6GEYJ104 Chip, 1kΩ 1/10W R647 ERJ6GEYJ104 Chip, 1kΩ 1/10W R648 ERJ6GEYJ104 Chip, 1kΩ 1/10W R659 ERJ6GEYJ104 Chip, 10kΩ 1/10W R650 ERJ6GEYJ104 Chip, 10kΩ 1/10W R651 ERJ6GEYJ104 Chip, 10kΩ 1/10W R652 ERJ6GEYJ104 Chip, 10kΩ 1/10W R653 ERJ6GEYJ104 Chip, 10kΩ 1/10W R656 ERJ6GEYJ104 Chip, 10kΩ 1/10W R657 ERJ6GEYJ104 Chip, 10kΩ 1/10W R658 ERJ6GEYJ104 Chip, 10kΩ 1/10W R659 ERJ6GEYJ223 Chip, 2kΩ 1/10W R660 ERJ6GEYJ102 Chip, 1kΩ 1/10W R661 ERJ6GEYJ222 Chip, 2kΩ 1/10W R661 ERJ6GEYJ222 Chip, 3kΩ 1/10W R662 ERJ6GEYJ222 Chip, 3kΩ 1/10W R663 ERJ6GEYJ222 Chip, 3kΩ 1/10W R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W R666 ERJ6GEYJ302 Chip, 3kΩ 1/10W R667 ERJ6GEYJ302 Chip, 3kΩ 1/10W R668 ERJ6GEYJ302 Chip, 3kΩ 1/10W R669 ERJ6GEYJ302 Chip, 3kΩ 1/10W R660 ERJ6GEYJ302 Chip, 3kΩ 1/10W R661 ERJ6GEYJ302 Chip, 3kΩ 1/10W R662 ERJ6GEYJ302 Chip, 3kΩ 1/10W R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W R666 ERJ6GEYJ302 Chip, 3kΩ 1/10W R667 ERJ6GEYJ302 Chip, 3kΩ 1/10W R668 ERJ6GEYJ302 Chip, 3kΩ 1/10W R669 ERJ6GEYJ302 Chip, 3kΩ 1/10W R669 ERJ6GEYJ302 Chip, 1kΩ 1/10W R669 ERJ6GEYJ302 Chip, 1kΩ 1/10W R669 ERJ6GEYJ302 Chip, 1kΩ 1/10W R690 ERJ6GEYJ302 Chip		<b>-</b>		
R603         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R604         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R607         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R609         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R614         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R616         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERD25TJ102         Carbon, 1kΩ 1/10W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ104         Chip, 1kΩ				
R604         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R607         ERJ6GEYJ473         Chip, 1kΩ 1/10W           R609         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R612         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R616         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R630         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ173         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ104         Chip, 1kΩ 1/1				
R607         ERJ6GEYJ473         Chip, 47kΩ 1/10W           R609         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R614         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERD5ETJ102         Carbon, 1kΩ 1/10W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R643         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R645         ERJ6GEYJ104         Chip, 1kΩ 1/				
R609         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R614         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERD25TJ102         Carbon, 1kΩ 1/4W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ8GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ184         Chip, 1.8kΩ 1/10W           R623         ERJ6GEYJ102         Chip, 1.8kΩ 1/10W           R629         ERJ6GEYJ102         Chip, 1.8kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1.8kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1.0kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1.0kΩ 1/10W           R632         ERJ6GEYJ103         Chip, 1.0kΩ 1/10W           R633         ERJ6GEYJ104         Chip, 1.0kΩ 1/10W           R643         ERJ6GEYJ103         Chip, 1.0kΩ 1/10W           R643         ERJ6GEYJ104				
R610         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R611         ERJ6GEYJ1681V         Chip, 1kΩ 1/10W           R614         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R616         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R630         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R643         ERJ6GEYJ103         Chip, 2kΩ 1/10W           R650         ERJ6GEYJ104         Chip, 1kΩ 1/				
R614         ERJ6GEYJ081V         Chip, 680Ω 1/8W           R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERD25TJ102         Chip, 1kΩ 1/10W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R629         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R630         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ104         Chip, 10kΩ 1/10W           R643         ERJ6GEYJ103         Chip, 10kΩ 1/10W           R645         ERJ6GEYJ104         Chip, 10kΩ 1/10W           R651         ERJ6GEYJ104         Chip, 10kΩ	R610	ERJ6GEYJ102		
R615         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R617         ERD25TJ102         Carbon, 1kΩ 1/4W           R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ8GEYJ102V         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R629         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R630         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R645         ERJ6GEYJ104         Chip, 1kΩ 1/10W           R651         ERJ6GEYJ104         Chip, 1kΩ 1/10W           R652         ERJ6GEYJ104         Chip, 1kΩ 1/10W           R653         ERJ6GEYJ302         Chip, 2kΩ 1/10W           R664         ERJ6GEYJ303         Chip, 1kΩ 1/1	R611	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R617         ERD25TJ102         Carbon, IkΩ 1/4W           R618         ERJ6GEYJ102         Chip, IkΩ 1/10W           R619         ERJ6GEYJ102         Chip, IkΩ 1/10W           R620         ERJ6GEYJ102V         Chip, IkΩ 1/10W           R621         ERJ8GEYJ102V         Chip, IkΩ 1/10W           R622         ERJ6GEYJ182         Chip, IkΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R630         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R631         ERJ6GEYJ182         Chip, 1.kΩ 1/10W           R632         ERJ6GEYJ182         Chip, 1.kΩ 1/10W           R633         ERJ6GEYJ183         Chip, 1.kΩ 1/10W           R634         ERJ6GEYJ184         Chip, 1.kΩ 1/10W           R633         ERJ6GEYJ184         Chip, 1.0kΩ 1/10W           R642         ERJ6GEYJ184         Chip, 1.0kΩ 1/10W           R642         ERJ6GEYJ104         Chip, 1.00kΩ 1/10W           R643         ERJ6GEYJ104         Chip, 1.00kΩ 1/10W           R650         ERJ6GEYJ104         Chip, 1.00kΩ 1/10W           R651         ERJ6GEYJ104         Chip, 1.00kΩ 1/10W           R652         ERJ6GEYJ102         Chip, 1.2kΩ 1/10W           R663         ERJ6GEYJ230 <td>R614</td> <td>ERJ8GEYJ681V</td> <td>Chip,680Ω 1/8W</td> <td></td>	R614	ERJ8GEYJ681V	Chip,680Ω 1/8W	
R618         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R619         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ8GEYJ102V         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R630         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ182         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R643         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ103         Chip, 1kΩ 1/10W           R643         ERJ6GEYJ104         Chip, 1kΩ 1/10W           R645         ERJ6GEYJ104         Chip, 1kΩ 1/10W           R650         ERJ6GEYJ104         Chip, 1kΩ 1/10W           R651         ERJ6GEYJ223         Chip, 2kΩ 1/10W           R652         ERJ6GEYJ23         Chip, 2kΩ 1/10W           R663         ERJ6GEYJ2302         Chip, 3kΩ 1/1	R615	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R619 ERJ6GEYJ102 Chip, 1kΩ 1/10W R620 ERJ6GEYJ102 Chip, 1kΩ 1/10W R621 ERJ8GEYJ102 Chip, 1kΩ 1/10W R622 ERJ6GEYJ102 Chip, 1kΩ 1/10W R623 ERJ6GEYJ184 Chip, 18 M 1/10W R629 ERJ6GEYJ182 Chip, 1.8 kΩ 1/10W R630 ERJ6GEYJ182 Chip, 1.8 kΩ 1/10W R631 ERJ6GEYJ182 Chip, 1.8 kΩ 1/10W R632 ERJ6GEYJ182 Chip, 1.8 kΩ 1/10W R633 ERJ6GEYJ182 Chip, 1.8 kΩ 1/10W R634 ERJ6GEYJ102 Chip, 1kΩ 1/10W R639 ERJ6GEYJ103 Chip, 1kΩ 1/10W R640 ERJ6GEYJ104 Chip, 180 kΩ 1/10W R641 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R642 ERJ8GEYJ104 Chip, 100 kΩ 1/10W R643 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R645 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R650 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R651 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R652 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R653 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R650 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R651 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R652 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R6650 ERJ6GEYJ002 Chip, 1kΩ 1/10W R6660 ERJ6GEYJ002 Chip, 1kΩ 1/10W R6661 ERJ6GEYJ302 Chip, 1kΩ 1/10W R6662 ERJ6GEYJ302 Chip, 1kΩ 1/10W R6663 ERJ6GEYJ302 Chip, 1kΩ 1/10W R6664 ERJ6GEYJ302 Chip, 1kΩ 1/10W R6665 ERJ6GEYJ222 Chip, 2.2 kΩ 1/10W R6666 ERJ6GEYJ222 Chip, 2.2 kΩ 1/10W R6670 ERJ6GEYJ222 Chip, 2.2 kΩ 1/10W R6681 ERJ6GEYJ222 Chip, 2.2 kΩ 1/10W R6690 ERJ6GEYJ103 Chip, 1kΩ 1/10W R6691 ERJ6GEYJ303 Chip, 30Ω 1/8W R6801 ERJ6GEYJ303 Chip, 30Ω 1/8W R6901 ERJ6GEYJ303 Chip, 30Ω 1/8W R6901 ERJ6GEYJ303 Chip, 30Ω 1/8W R6901 ERJ6GEYJ303 Chip, 30Ω 1/8W R6902 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R6903 ERJ6GEYJ104 Chip, 100 kΩ 1/10W R6903 E				
R620         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R621         ERJ6GEYJ102V         Chip, 1kΩ 1/10W           R622         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R623         ERJ6GEYJ184         Chip, 18kΩ 1/10W           R629         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R630         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R631         ERJ6GEYJ473         Chip, 1kΩ 1/10W           R632         ERJ6GEYJ473         Chip, 1kΩ 1/10W           R633         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ184         Chip, 1kΩ 1/10W           R642         ERJ6GEYJ104         Chip, 180kΩ 1/10W           R643         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R644         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R645         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R650         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R651         ERJ6GEYJ102         Chip, 100kΩ 1/10W           R659         ERJ6GEYJ302         Chip, 1kΩ 1/10W           R660         ERJ6GEYJ302         Chip, 1kΩ 1/10W           R661         ERJ6GEYJ302         Chip, 3kΩ 1/10W           R662         ERJ6GEYJ302				
R621         ENJBGEYJ102V         Chip, 1kΩ 1/10W           R622         ERJGGEYJ184         Chip, 1kΩ 1/10W           R623         ERJGGEYJ184         Chip, 18Ω 1/10W           R629         ERJGGEYJ182         Chip, 1.8Ω 1/10W           R630         ERJGGEYJ182         Chip, 1.8Ω 1/10W           R631         ERJGGEYJ182         Chip, 1kΩ 1/10W           R632         ERJGGEYJ182         Chip, 1kΩ 1/10W           R633         ERJGGEYJ102         Chip, 1kΩ 1/10W           R634         ERJGGEYJ184         Chip, 1kΩ 1/10W           R643         ERJGGEYJ104         Chip, 10kΩ 1/10W           R643         ERJGGEYJ104         Chip, 100kΩ 1/10W           R643         ERJGGEYJ104         Chip, 100kΩ 1/10W           R645         ERJGGEYJ104         Chip, 100kΩ 1/10W           R650         ERJGGEYJ104         Chip, 100kΩ 1/10W           R651         ERJGGEYJ104         Chip, 100kΩ 1/10W           R652         ERJGGEYJ262         Chip, 100kΩ 1/10W           R659         ERJGGEYJ302         Chip, 1kΩ 1/10W           R660         ERJGGEYJ302         Chip, 1kΩ 1/10W           R661         ERJGGEYJ302         Chip, 3kΩ 1/10W           R662         ERJGGEYJ302 <t< td=""><td></td><td></td><td></td><td></td></t<>				
R622       ERJ6GEYJ102       Chip, 1kΩ 1/10W         R623       ERJ6GEYJ184       Chip, 180kΩ 1/10W         R629       ERJ6GEYJ102       Chip, 1kΩ 1/10W         R631       ERJ6GEYJ182       Chip, 1kΩ 1/10W         R631       ERJ6GEYJ182       Chip, 1kΩ 1/10W         R632       ERJ6GEYJ102       Chip, 1kΩ 1/10W         R633       ERJ6GEYJ103       Chip, 1kΩ 1/10W         R634       ERJ6GEYJ103       Chip, 1kΩ 1/10W         R642       ERJ8GEYJ103V       Chip, 10kΩ 1/10W         R643       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R644       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R650       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R651       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R651       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R652       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R653       ERJ6GEYJ223       Chip, 5.6kΩ 1/10W         R666       ERJ6GEYJ302       Chip, 1kΩ 1/10W         R661       ERJ6GEYJ303       Chip, 1kΩ 1/10W         R662       ERJ6GEYJ302       Chip, 3kΩ 1/10W         R663       ERJ6GEYJ302       Chip, 3kΩ 1/10W         R664       ERJ6GEYJ302       Chip, 3kΩ		·		
R623 ERJ6GEYJ184 Chip,180kΩ 1/10W R629 ERJ6GEYJ192 Chip,1.8kΩ 1/10W R630 ERJ6GEYJ102 Chip,1.8kΩ 1/10W R631 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R631 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R632 ERJ6GEYJ173 Chip,47kΩ 1/10W R633 ERJ6GEYJ102 Chip,1kΩ 1/10W R634 ERJ6GEYJ184 Chip,100kΩ 1/10W R639 ERJ6GEYJ184 Chip,100kΩ 1/10W R642 ERJ8GEYJ104 Chip,100kΩ 1/10W R645 ERJ6GEYJ104 Chip,100kΩ 1/10W R6465 ERJ6GEYJ104 Chip,100kΩ 1/10W R6510 ERJ6GEYJ104 Chip,100kΩ 1/10W R652 ERJ6GEYJ104 Chip,100kΩ 1/10W R653 ERJ6GEYJ104 Chip,100kΩ 1/10W R654 ERJ6GEYJ104 Chip,100kΩ 1/10W R6550 ERJ6GEYJ104 Chip,100kΩ 1/10W R6560 ERJ6GEYJ102 Chip,5.6kΩ 1/10W R6570 ERJ6GEYJ223 Chip,22kΩ 1/10W R661 ERJ6GEYJ223 Chip,22kΩ 1/10W R661 ERJ6GEYJ302 Chip,3kΩ 1/10W R661 ERJ6GEYJ302 Chip,3kΩ 1/10W R663 ERJ6GEYJ302 Chip,3kΩ 1/10W R664 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R666 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R669 ERJ6GEYJ102 Chip,10kΩ 1/10W R669 ERJ6GEYJ102 Chip,10kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R669 ERJ6GEYJ104 Chip,10kΩ 1/10W R677 ERD52TJ102 Carbon,1kΩ 1/4W R681 ERJ8GEYJ102 Chip,1kΩ 1/10W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R680 ERJ6GEYJ393 Chip,30Ω 1/8W R681 ERJ8GEYJ393 Chip,30Ω 1/8W R680 ERJ6GEYJ393 Chip,30Ω 1/8W R681 ERJ8GEYJ394 Chip,180kΩ 1/10W R692 ERJ6GEYJ184 Chip,180kΩ 1/10W R693 ERJ6GEYJ102 Chip,10kΩ 1/10W				
R629         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R630         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R631         ERJ6GEYJ182         Chip, 1.8kΩ 1/10W           R632         ERJ6GEYJ173         Chip, 1.8kΩ 1/10W           R633         ERJ6GEYJ102         Chip, 1kΩ 1/10W           R634         ERJ6GEYJ184         Chip, 10kΩ 1/10W           R639         ERJ6GEYJ184         Chip, 10kΩ 1/10W           R642         ERJ8GEYJ103V         Chip, 10kΩ 1/10W           R643         ERJ6GEYJ104         Chip, 10kΩ 1/10W           R645         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R650         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R651         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R652         ERJ6GEYJ104         Chip, 100kΩ 1/10W           R653         ERJ6GEYJ102         Chip, 10kΩ 1/10W           R664         ERJ6GEYJ223         Chip, 22kΩ 1/10W           R665         ERJ6GEYJ302         Chip, 3kΩ 1/10W           R664         ERJ6GEYJ302         Chip, 3kΩ 1/10W           R665         ERJ6GEYJ302         Chip, 3kΩ 1/10W           R666         ERJ6GEYJ222         Chip, 2.2kΩ 1/10W           R667         ERJ6GEYJ30				
R631 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W R632 ERJ6GEYJ473 Chip, 47kΩ 1/10W R633 ERJ6GEYJ102 Chip, 1kΩ 1/10W R634 ERJ6GEYJ103 Chip, 180kΩ 1/10W R639 ERJ6GEYJ104 Chip, 180kΩ 1/10W R642 ERJ8GEYJ104 Chip, 100kΩ 1/10W R645 ERJ6GEYJ104 Chip, 100kΩ 1/10W R650 ERJ6GEYJ104 Chip, 100kΩ 1/10W R651 ERJ6GEYJ104 Chip, 100kΩ 1/10W R652 ERJ6GEYJ104 Chip, 100kΩ 1/10W R653 ERJ6GEYJ104 Chip, 100kΩ 1/10W R654 ERJ6GEYJ104 Chip, 100kΩ 1/10W R655 ERJ6GEYJ104 Chip, 100kΩ 1/10W R656 ERJ6GEYJ102 Chip, 5.6kΩ 1/10W R666 ERJ6GEYJ302 Chip, 3kΩ 1/10W R666 ERJ6GEYJ302 Chip, 2.2kΩ 1/10W R667 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip, 1kΩ 1/10W R6673 ERJ6GEYJ102 Chip, 1kΩ 1/10W R6674 ERJ6GEYJ102 Chip, 1kΩ 1/10W R675 ERJ6GEYJ102 Chip, 1kΩ 1/10W R677 ERDS2T1102 Chip, 1kΩ 1/10W R677 ERDS2T1102 Chip, 1kΩ 1/10W R668 ERJ6GEYJ331V Chip, 330Ω 1/8W R669 ERJ6GEYJ310 Chip, 3kΩ 1/10W R680 ERJ8GEYJ331V Chip, 330Ω 1/8W R691 ERJ6GEYJ184 Chip, 30Ω 1/10W R692 ERJ8GEYJ184 Chip, 30Ω 1/10W R693 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W	R629	ERJ6GEYJ182		
R632 ERJ6GEYJ473 Chip, 47kΩ 1/10W  R633 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R634 ERJ6GEYJ473 Chip, 47kΩ 1/10W  R639 ERJ6GEYJ184 Chip, 180kΩ 1/10W  R642 ERJ8GEYJ103V Chip, 10kΩ 1/8W  R643 ERJ6GEYJ104 Chip, 100kΩ 1/10W  R645 ERJ6GEYJ104 Chip, 100kΩ 1/10W  R650 ERJ6GEYJ104 Chip, 100kΩ 1/10W  R651 ERJ6GEYJ104 Chip, 100kΩ 1/10W  R652 ERJ6GEYJ104 Chip, 100kΩ 1/10W  R653 ERJ6GEYJ104 Chip, 100kΩ 1/10W  R659 ERJ6GEYJ102 Chip, 5.6kΩ 1/10W  R660 ERJ6GEYJ302 Chip, 22kΩ 1/10W  R661 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R662 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R665 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R666 ERJ8GEYJ222 Chip, 2.2kΩ 1/10W  R667 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R668 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R669 ERJ6GEYJ302 Chip, 2.2kΩ 1/10W  R661 ERJ8GEYJ302 Chip, 10kΩ 1/10W  R662 ERJ6GEYJ303 Chip, 10kΩ 1/10W  R663 ERJ6GEYJ303 Chip, 10kΩ 1/10W  R664 ERJ8GEYJ304 Chip, 10kΩ 1/10W  R665 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R666 ERJ8GEYJ3104 Chip, 10kΩ 1/10W  R677 ERDS2TJ102 Carbon, 1kΩ 1/4W  R680 ERJ8GEYJ331V Chip, 330Ω 1/8W  R680 ERJ8GEYJ331V Chip, 330Ω 1/8W  R680 ERJ8GEYJ3104 Chip, 180kΩ 1/10W  R690 ERJ6GEYJ184 Chip, 180kΩ 1/10W  R691 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R692 ERJ8GEYJ102 Chip, 1kΩ 1/10W  R693 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W	R630	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R633 ERJ6GEYJ102 Chip,1kΩ 1/10W R634 ERJ6GEYJ473 Chip,47kΩ 1/10W R639 ERJ6GEYJ184 Chip,180kΩ 1/10W R642 ERJ8GEYJ103V Chip,10kΩ 1/8W R643 ERJ6GEYJ104 Chip,100kΩ 1/10W R645 ERJ6GEYJ273 Chip,27kΩ 1/10W R6565 ERJ6GEYJ104 Chip,100kΩ 1/10W R657 ERJ6GEYJ104 Chip,100kΩ 1/10W R658 ERJ6GEYJ104 Chip,100kΩ 1/10W R659 ERJ6GEYJ104 Chip,100kΩ 1/10W R659 ERJ6GEYJ102 Chip,5.6kΩ 1/10W R661 ERJ6GEYJ393 Chip,22kΩ 1/10W R661 ERJ6GEYJ393 Chip,3kΩ 1/10W R662 ERJ6GEYJ302 Chip,3kΩ 1/10W R663 ERJ6GEYJ302 Chip,3kΩ 1/10W R664 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R666 ERJ8GEYJ222 Chip,2.2kΩ 1/10W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ103 Chip,1kΩ 1/10W R669 ERJ6GEYJ103 Chip,1kΩ 1/10W R673 ERJ6GEYJ104 Chip,1kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ102 Chip,1kΩ 1/10W R675 ERJ8GEYJ102 Chip,1kΩ 1/10W R676 ERJ8GEYJ104 Chip,1kΩ 1/10W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R680 ERJ8GEYJ3104 Chip,1sΩ 1/10W R680 ERJ8GEYJ3104 Chip,330Ω 1/8W R680 ERJ8GEYJ3104 Chip,330Ω 1/8W R680 ERJ8GEYJ3104 Chip,180kΩ 1/10W R691 ERJ8GEYJ104 Chip,180kΩ 1/10W R692 ERJ8GEYJ102 Chip,1kΩ 1/10W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ102 Chip,1kΩ 1/10W	R631	ERJ6GEYJ182	Chip,1.8kΩ 1/10W	
R634 ERJ6GEYJ473 Chip, 47kΩ 1/10W R639 ERJ6GEYJ184 Chip, 180kΩ 1/10W R642 ERJ8GEYJ103V Chip, 10kΩ 1/8W R643 ERJ6GEYJ104 Chip, 100kΩ 1/10W R645 ERJ6GEYJ104 Chip, 100kΩ 1/10W R650 ERJ6GEYJ104 Chip, 100kΩ 1/10W R651 ERJ6GEYJ104 Chip, 100kΩ 1/10W R652 ERJ6GEYJ104 Chip, 100kΩ 1/10W R653 ERJ6GEYJ104 Chip, 100kΩ 1/10W R659 ERJ6GEYJ102 Chip, 5.6kΩ 1/10W R660 ERJ6GEYJ302 Chip, 1kΩ 1/10W R661 ERJ6GEYJ302 Chip, 3kΩ 1/10W R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W R665 ERJ6GEYJ222 Chip, 3kΩ 1/10W R666 ERJ6GEYJ302 Chip, 3kΩ 1/10W R667 ERJ6GEYJ302 Chip, 1kΩ 1/10W R668 ERJ6GEYJ302 Chip, 1kΩ 1/10W R669 ERJ6GEYJ302 Chip, 1kΩ 1/10W R661 ERJ8GEYJ302 Chip, 1kΩ 1/10W R662 ERJ8GEYJ302 Chip, 1kΩ 1/10W R663 ERJ6GEYJ302 Chip, 1kΩ 1/10W R664 ERJ6GEYJ303 Chip, 10kΩ 1/10W R665 ERJ6GEYJ102 Chip, 1kΩ 1/10W R666 ERJ8GEYJ102 Chip, 1kΩ 1/10W R670 ERJ8GEYJ331V Chip, 150kΩ 1/8W R671 ERDS2TJ102 Carbon, 1kΩ 1/4W R681 ERJ8GEYJ331V Chip, 330Ω 1/8W R680 ERJ8GEYJ331V Chip, 330Ω 1/8W R680 ERJ6GEYJ3184 Chip, 180kΩ 1/10W R690 ERJ6GEYJ184 Chip, 180kΩ 1/10W R691 ERJ6GEYJ102 Chip, 1kΩ 1/10W R692 ERJ8GEYJ102 Chip, 1kΩ 1/10W R693 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W				
R639 ERJ6GEYJ184 Chip,180kΩ 1/10W R642 ERJ8GEYJ103V Chip,10kΩ 1/8W R643 ERJ6GEYJ104 Chip,100kΩ 1/10W R645 ERJ6GEYJ273 Chip,27kΩ 1/10W R650 ERJ6GEYJ104 Chip,100kΩ 1/10W R651 ERJ6GEYJ104 Chip,100kΩ 1/10W R652 ERJ6GEYJ104 Chip,100kΩ 1/10W R659 ERJ6GEYJ102 Chip,5.6kΩ 1/10W R659 ERJ6GEYJ23 Chip,22kΩ 1/10W R660 ERJ6GEYJ393 Chip,22kΩ 1/10W R661 ERJ6GEYJ393 Chip,3kΩ 1/10W R662 ERJ6GEYJ302 Chip,3kΩ 1/10W R663 ERJ6GEYJ302 Chip,3kΩ 1/10W R664 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ302 Chip,3kΩ 1/10W R666 ERJ8GEYJ222 Chip,2.2kΩ 1/8W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ102 Chip,1kΩ 1/10W R675 ERJ8GEYJ102 Chip,1kΩ 1/10W R676 ERJ8GEYJ102 Chip,1kΩ 1/10W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R680 ERJ6GEYJ384 Chip,330Ω 1/8W R680 ERJ6GEYJ384 Chip,330Ω 1/8W R680 ERJ6GEYJ384 Chip,330Ω 1/8W R680 ERJ6GEYJ384 Chip,330Ω 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ182 Chip,1kΩ 1/10W R693 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W				
R642       ERJ8GEYJ103V       Chip, 10kΩ 1/8W         R643       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R645       ERJ6GEYJ273       Chip, 27kΩ 1/10W         R650       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R651       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R652       ERJ6GEYJ104       Chip, 100kΩ 1/10W         R658       ERJ6GEYJ562       Chip, 5.6kΩ 1/10W         R659       ERJ6GEYJ223       Chip, 2kΩ 1/10W         R660       ERJ6GEYJ102       Chip, 3kΩ 1/10W         R661       ERJ6GEYJ302       Chip, 3kΩ 1/10W         R662       ERJ6GEYJ302       Chip, 3kΩ 1/10W         R663       ERJ6GEYJ302       Chip, 2kΩ 1/10W         R664       ERJ6GEYJ302       Chip, 2kΩ 1/10W         R665       ERJ6GEYJ302       Chip, 2.2kΩ 1/10W         R666       ERJ6GEYJ302       Chip, 2.2kΩ 1/10W         R667       ERJ6GEYJ222       Chip, 2.2kΩ 1/10W         R668       ERJ6GEYJ303       Chip, 1kΩ 1/10W         R673       ERJ6GEYJ102       Chip, 1kΩ 1/10W         R674       ERJ8GEYJ102       Chip, 1kΩ 1/8W         R675       ERJ8GEYJ302       Chip, 1kΩ 1/8W         R680       ERJ6GEYJ302       Chip, 3sΩ 1				
R643 ERJ6GEYJ104 Chip,100kΩ 1/10W R645 ERJ6GEYJ273 Chip,27kΩ 1/10W R650 ERJ6GEYJ104 Chip,100kΩ 1/10W R651 ERJ6GEYJ104 Chip,100kΩ 1/10W R652 ERJ6GEYJ104 Chip,100kΩ 1/10W R658 ERJ6GEYJ562 Chip,5.6kΩ 1/10W R659 ERJ6GEYJ223 Chip,22kΩ 1/10W R660 ERJ6GEYJ102 Chip,1kΩ 1/10W R661 ERJ6GEYJ302 Chip,3kΩ 1/10W R662 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ302 Chip,3kΩ 1/10W R666 ERJ8GEYJ302 Chip,3kΩ 1/10W R666 ERJ6GEYJ302 Chip,2.2kΩ 1/8W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R675 ERJ8GEYJ102 Chip,1kΩ 1/10W R6767 ERJ8GEYJ102 Chip,1kΩ 1/10W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R682 ERJ8GEYJ384 Chip,330Ω 1/8W R689 ERJ6GEYJ184 Chip,150kΩ 1/10W R691 ERJ6GEYJ184 Chip,150kΩ 1/10W R692 ERJ8GEYJ102 Chip,1kΩ 1/10W R693 ERJ6GEYJ182 Chip,10kΩ 1/10W R695 ERJ6GEYJ182 Chip,10kΩ 1/10W				
R645 ERJ6GEYJ273 Chip,27kΩ 1/10W R650 ERJ6GEYJ104 Chip,100kΩ 1/10W R651 ERJ6GEYJ104 Chip,100kΩ 1/10W R652 ERJ6GEYJ104 Chip,100kΩ 1/10W R658 ERJ6GEYJ562 Chip,5.6kΩ 1/10W R659 ERJ6GEYJ223 Chip,22kΩ 1/10W R660 ERJ6GEYJ102 Chip,1kΩ 1/10W R661 ERJ6GEYJ393 Chip,3kΩ 1/10W R662 ERJ6GEYJ302 Chip,3kΩ 1/10W R663 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ302 Chip,3kΩ 1/10W R666 ERJ8GEYJ302 Chip,2.2kΩ 1/8W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R675 ERJ8GEYJ102 Chip,1kΩ 1/10W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R682 ERJ8GEYJ384 Chip,330Ω 1/8W R689 ERJ6GEYJ184 Chip,150kΩ 1/10W R699 ERJ6GEYJ184 Chip,150kΩ 1/10W R691 ERJ6GEYJ184 Chip,150kΩ 1/10W R692 ERJ8GEYJ102 Chip,1kΩ 1/10W R693 ERJ6GEYJ182 Chip,10kΩ 1/10W R695 ERJ6GEYJ182 Chip,10kΩ 1/10W R6971 ERDS2FJ470 Carbon,47Ω 1/4W				
R651 ERJ6GEYJ104 Chip,100kΩ 1/10W R652 ERJ6GEYJ562 Chip,5.6kΩ 1/10W R658 ERJ6GEYJ562 Chip,5.6kΩ 1/10W R659 ERJ6GEYJ223 Chip,22kΩ 1/10W R660 ERJ6GEYJ102 Chip,1kΩ 1/10W R661 ERJ6GEYJ302 Chip,3kΩ 1/10W R663 ERJ6GEYJ302 Chip,3kΩ 1/10W R664 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ302 Chip,3kΩ 1/10W R666 ERJ8GEYJ222V Chip,2.2kΩ 1/10W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,1kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ102 Chip,1kΩ 1/10W R675 ERJ8GEYJ102 Chip,1kΩ 1/10W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ8GEYJ31V Chip,4.7kΩ 1/10W R6891 ERJ8GEYJ314 Chip,4.7kΩ 1/10W R691 ERJ8GEYJ184 Chip,180kΩ 1/10W R692 ERJ8GEYJ104V Chip,190kΩ 1/10W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,10kΩ 1/10W R695 ERJ6GEYJ182 Chip,10kΩ 1/10W R6971 ERDS2FJ470 Carbon,47Ω 1/10W R699 ERJ6GEYJ182 Chip,18kΩ 1/10W R699 ERJ6GEYJ182 Chip,18kΩ 1/10W R6991 ERJ6GEYJ182 Chip,18kΩ 1/10W	R645	ERJ6GEYJ273		
R652 ERJ6GEYJ104 Chip,100kΩ 1/10W R658 ERJ6GEYJ562 Chip,5.6kΩ 1/10W R659 ERJ6GEYJ223 Chip,22kΩ 1/10W R660 ERJ6GEYJ102 Chip,1kΩ 1/10W R661 ERJ6GEYJ393 Chip,39kΩ 1/10W R663 ERJ6GEYJ302 Chip,3kΩ 1/10W R664 ERJ6GEYJ302 Chip,3kΩ 1/10W R665 ERJ6GEYJ302 Chip,3kΩ 1/10W R666 ERJ6GEYJ222 Chip,2.2kΩ 1/8W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,1kΩ 1/10W R673 ERJ6GEYJ103 Chip,1kΩ 1/10W R674 ERJ8GEYJ102 Chip,1kΩ 1/10W R675 ERJ8GEYJ102 Chip,1kΩ 1/8W R677 ERDS2TJ102 Carbon,1kΩ 1/8W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ314 Chip,330Ω 1/8W R686 ERJ6GEYJ184 Chip,180kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ104 Chip,180kΩ 1/10W R692 ERJ6GEYJ104 Chip,180kΩ 1/10W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R6971 ERDS2FJ470 Carbon,47Ω 1/10W	R650	ERJ6GEYJ104	Chip,100kΩ 1/10W	
R658 ERJ6GEYJ562 Chip, 5. 6kΩ 1/10W R659 ERJ6GEYJ223 Chip, 22kΩ 1/10W R660 ERJ6GEYJ102 Chip, 1kΩ 1/10W R661 ERJ6GEYJ393 Chip, 39kΩ 1/10W R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W R665 ERJ6GEYJ302 Chip, 3kΩ 1/10W R666 ERJ6GEYJ222 Chip, 2. 2kΩ 1/8W R667 ERJ6GEYJ222 Chip, 2. 2kΩ 1/10W R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W R673 ERJ6GEYJ103 Chip, 10kΩ 1/10W R674 ERJ6GEYJ102 Chip, 10kΩ 1/10W R675 ERJ6GEYJ102 Chip, 1kΩ 1/10W R676 ERJ8GEYJ102 Chip, 1kΩ 1/10W R677 ERDS2TJ102 Carbon, 1kΩ 1/4W R680 ERJ8GEYJ331V Chip, 330Ω 1/8W R681 ERJ8GEYJ331V Chip, 330Ω 1/8W R686 ERJ6GEYJ184 Chip, 180kΩ 1/10W R690 ERJ6GEYJ184 Chip, 180kΩ 1/10W R691 ERJ6GEYJ184 Chip, 180kΩ 1/10W R692 ERJ6GEYJ102 Chip, 1kΩ 1/10W R693 ERJ6GEYJ102 Chip, 1kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W	R651	ERJ6GEYJ104	Chip,100kΩ 1/10W	
R659 ERJ6GEYJ223 Chip, 22kΩ 1/10W R660 ERJ6GEYJ102 Chip, 1kΩ 1/10W R661 ERJ6GEYJ393 Chip, 39kΩ 1/10W R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W R665 ERJ6GEYJ302 Chip, 3kΩ 1/10W R666 ERJ6GEYJ222 Chip, 2.2kΩ 1/8W R667 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W R673 ERJ6GEYJ103 Chip, 10kΩ 1/10W R674 ERJ8GEYJ104 Chip, 150kΩ 1/8W R675 ERJ8GEYJ102 Chip, 150kΩ 1/8W R676 ERJ8GEYJ102 Carbon, 1kΩ 1/4W R680 ERJ8GEYJ331V Chip, 330Ω 1/8W R681 ERJ8GEYJ331V Chip, 330Ω 1/8W R686 ERJ6GEYJ3472 Chip, 1.7kΩ 1/10W R690 ERJ6GEYJ184 Chip, 180kΩ 1/10W R691 ERJ6GEYJ184 Chip, 180kΩ 1/10W R692 ERJ6GEYJ104 Chip, 180kΩ 1/10W R693 ERJ6GEYJ102 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 10kΩ 1/10W R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W R6971 ERDS2FJ470 Carbon, 47Ω 1/4W				
R660 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R661 ERJ6GEYJ393 Chip, 39kΩ 1/10W  R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R665 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R666 ERJ8GEYJ222 Chip, 2.2kΩ 1/10W  R667 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W  R673 ERJ6GEYJ102 Chip, 10kΩ 1/10W  R674 ERJ8GEYJ102 Chip, 10kΩ 1/10W  R675 ERJ8GEYJ102 Chip, 1kΩ 1/10W  R6767 ERJ8GEYJ102 Chip, 1kΩ 1/4W  R680 ERJ8GEYJ102 Chip, 330Ω 1/8W  R681 ERJ8GEYJ331V Chip, 330Ω 1/8W  R686 ERJ6GEYJ31V Chip, 180kΩ 1/10W  R690 ERJ6GEYJ184 Chip, 180kΩ 1/10W  R691 ERJ6GEYJ184 Chip, 180kΩ 1/10W  R692 ERJ8GEYJ104V Chip, 190kΩ 1/10W  R693 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W				
R661 ERJ6GEYJ393 Chip, 39kΩ 1/10W  R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R665 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R666 ERJ8GEYJ222 Chip, 2.2kΩ 1/10W  R667 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R668 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W  R673 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R674 ERJ8GEYJ102V Chip, 1kΩ 1/10W  R675 ERJ8GEYJ102V Chip, 1kΩ 1/8W  R676 ERJ8GEYJ331V Chip, 330Ω 1/8W  R680 ERJ8GEYJ331V Chip, 330Ω 1/8W  R681 ERJ8GEYJ331V Chip, 330Ω 1/8W  R686 ERJ6GEYJ314 Chip, 4.7kΩ 1/10W  R690 ERJ6GEYJ184 Chip, 4.7kΩ 1/10W  R691 ERJ6GEYJ104V Chip, 180kΩ 1/10W  R692 ERJ8GEYJ104V Chip, 100kΩ 1/8W  R693 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R701 ERDS2FJ470 Carbon, 47Ω 1/4W				
R663 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R665 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R666 ERJ8GEYJ222 Chip, 2.2kΩ 1/10W  R667 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R668 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W  R673 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R674 ERJ8GEYJ102V Chip, 1kΩ 1/8W  R675 ERJ8GEYJ102V Chip, 1kΩ 1/8W  R676 ERJ8GEYJ331V Chip, 330Ω 1/8W  R680 ERJ8GEYJ331V Chip, 330Ω 1/8W  R681 ERJ8GEYJ331V Chip, 330Ω 1/8W  R686 ERJ6GEYJ393 Chip, 4.7kΩ 1/10W  R690 ERJ6GEYJ184 Chip, 4.7kΩ 1/10W  R691 ERJ6GEYJ393 Chip, 39kΩ 1/10W  R692 ERJ8GEYJ104V Chip, 100kΩ 1/8W  R693 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R701 ERDS2FJ470 Caxbon, 47Ω 1/4W				<del></del>
R664 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R665 ERJ6GEYJ302 Chip, 3kΩ 1/10W  R666 ERJ8GEYJ222V Chip, 2.2kΩ 1/8W  R667 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R668 ERJ6GEYJ222 Chip, 2.2kΩ 1/10W  R669 ERJ6GEYJ103 Chip, 10kΩ 1/10W  R673 ERJ6GEYJ102 Chip, 1kΩ 1/10W  R674 ERJ8GEYJ104V Chip, 150kΩ 1/8W  R675 ERJ8GEYJ102V Chip, 1kΩ 1/4W  R680 ERJ8GEYJ31V Chip, 330Ω 1/8W  R681 ERJ8GEYJ331V Chip, 330Ω 1/8W  R686 ERJ6GEYJ312V Chip, 4.7kΩ 1/10W  R690 ERJ6GEYJ184 Chip, 4.7kΩ 1/10W  R691 ERJ6GEYJ393 Chip, 39kΩ 1/10W  R692 ERJ8GEYJ104V Chip, 100kΩ 1/8W  R693 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1kΩ 1/10W  R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W  R701 ERDS2FJ470 Caxbon, 47Ω 1/4W				
R665 ERJ6GEYJ302 Chip,3kΩ 1/10W R666 ERJ8GEYJ222V Chip,2.2kΩ 1/8W R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ102V Chip,1kΩ 1/8W R675 ERJ8GEYJ102V Chip,1kΩ 1/8W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ31V Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,4.7kΩ 1/10W R691 ERJ6GEYJ193 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R6971 ERDS2FJ470 Carbon,47Ω 1/4W				
R667 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ154V Chip,150kΩ 1/8W R675 ERJ8GEYJ102V Chip,1kΩ 1/8W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ184 Chip,180kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ104V Chip,100kΩ 1/8W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R6970 ERJ6GEYJ182 Chip,1kΩ 1/10W R6970 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R6970 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R6970 ERDS2FJ470 Carbon,47Ω 1/4W				
R668 ERJ6GEYJ222 Chip,2.2kΩ 1/10W R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ154V Chip,150kΩ 1/8W R675 ERJ8GEYJ102V Chip,1kΩ 1/4W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ184 Chip,180kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R6970 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R6970 ERDS2FJ470 Carbon,47Ω 1/4W	R666	ERJ8GEYJ222V	Chip,2.2kΩ 1/8W	
R669 ERJ6GEYJ103 Chip,10kΩ 1/10W R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ154V Chip,150kΩ 1/8W R675 ERJ8GEYJ102V Chip,1kΩ 1/8W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,18kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W	R667	ERJ6GEYJ222	Chip,2.2kΩ 1/10W	
R673 ERJ6GEYJ102 Chip,1kΩ 1/10W R674 ERJ8GEYJ154V Chip,150kΩ 1/8W R675 ERJ8GEYJ102V Chip,1kΩ 1/8W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W		ERJ6GEYJ222		
R674 ERJ8GEYJ154V Chip,150kΩ 1/8W R675 ERJ8GEYJ102V Chip,1kΩ 1/8W R677 ERDS2TJ102 Carbon,1kΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R675 ERJ8GEYJ102V Chip,lkΩ 1/8W R677 ERDS2TJ102 Carbon,lkΩ 1/4W R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R677 ERDS2TJ102 Carbon, 1kΩ 1/4W R680 ERJ8GEYJ331V Chip, 330Ω 1/8W R681 ERJ8GEYJ331V Chip, 330Ω 1/8W R686 ERJ6GEYJ472 Chip, 4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip, 180kΩ 1/10W R691 ERJ6GEYJ393 Chip, 39kΩ 1/10W R692 ERJ8GEYJ104V Chip, 100kΩ 1/8W R693 ERJ6GEYJ102 Chip, 1kΩ 1/10W R695 ERJ6GEYJ182 Chip, 1.8kΩ 1/10W R701 ERDS2FJ470 Carbon, 47Ω 1/4W				
R680 ERJ8GEYJ331V Chip,330Ω 1/8W R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R681 ERJ8GEYJ331V Chip,330Ω 1/8W R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R686 ERJ6GEYJ472 Chip,4.7kΩ 1/10W R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R690 ERJ6GEYJ184 Chip,180kΩ 1/10W R691 ERJ6GEYJ393 Chip,39kΩ 1/10W R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R692 ERJ8GEYJ104V Chip,100kΩ 1/8W R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W	R690	ERJ6GEYJ184		
R693 ERJ6GEYJ102 Chip,1kΩ 1/10W R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W	R691	ERJ6GEYJ393	Chip,39kΩ 1/10W	
R695 ERJ6GEYJ182 Chip,1.8kΩ 1/10W R701 ERDS2FJ470 Carbon,47Ω 1/4W				
R701 ERDS2FJ470 Carbon, 47Ω 1/4W				
R704 ERJ6GEYJ274 Chip,270kΩ 1/10W				

Ref. No.	Part No.	Part Name & Description	Remark
			8
R705	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R706	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R707	ERD25TJ224	Carbon,220kΩ 1/4W	
R708	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R709	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R710	ERDS1FJ681	Carbon, 680Ω 1/2W	
R711	ERDS1FJ681	Carbon, 680Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip,1.0Ω 1/8W	
R714	ERJ6GEYJ561	Chip,560Ω 1/10W	
R715	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R716	ERDS1FJ681	Carbon, 680Ω 1/2W	
R719	ERJ8GEYJ1R0V	Chip,1.0Ω 1/8W	
R720	ERJ6GEYJ103	Chip,10kΩ 1/10W	
R721	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R722	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R723	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R724	ERJ8GEYJ222V	Chip,2.2kΩ 1/8W	
R726	ERJ6GEYJ472	Chip, 4.7kΩ1/10W	
R727	ERJ6GEYJ151	Chip,150Ω 1/10W	
R728	ERJ6GEYJ151	Chip,150Ω 1/10W	
R801	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R804	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R805	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R806	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R807	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R808	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R809	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R900	ERJ6GEYJ225V	Chip, 2.2MΩ 1/10W	
R902	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R903	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R904	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R905	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R906	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R908	ERJ8GEYJ331V	Chip,330Ω 1/8W	

DISPLAY BLOCK [E-8598A]			
Ref. No.	Part No.	Part Name & Description	Remark s
R906	ERJ6GEYJ152	Chip,1.5kΩ 1/10W	
R907	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip,1kΩ 1/10W	
R930	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R931	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R941	ERJ6GEYJ103	Chip,10kΩ 1/10W	
R942	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R951	ERJ6GEYJ181	Chip,180Ω 1/10W	
R952	ERJ6GEYJ181	Chip,180Ω 1/10W	
R953	ERJ6GEYJ181	Chip,180Ω 1/10W	
R954	ERJ6GEYJ181	Chip,180Ω 1/10W	
R955	ERJ6GEYJ181	Chip,180Ω 1/10W	
R956	ERJ6GEYJ181	Chip,180Ω 1/10W	
R957	ERJ6GEYJ331	Chip,330Ω 1/10W	
R961	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R962	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R963	ERJ6GEYJ103	Chip,10kΩ 1/10W	
R964	ERJ6GEYJ103	Chip,10kΩ 1/10W	
R965	ERJ6GEYJ103	Chip,10kΩ 1/10W	

# 1.5. Connectors

MAIN/MD INTERFACE BLOCK [E-6731A] Ref. Part No. Part Name & Description Remark No. CN300 YEAE02166 Connector, 4P RCA CN601 YEAE0115MX Connector, 15P CN602 YEAETSBP0607 Connector, 7P CN603 CN603 YEAE0104MX CN620 YEAE012763 Connector, 4P Connector, 14P CN622 YEAE0114TKAG Connector, 14P CN680 YEAE012307 Connector, 8P DIN

Ref. No.	Part No.	Part Name & Description	Remark s
CN701	YEAE012748	Connector, 16P	
CP620	YEAE012668	Connector, 14P	

DISPLAY BLOCK [E-8598A]

Ref. No.	Part No.	Part Name & Description	Remark s
CN901	YEAE012760	Connector, 14P	

FRONT/EJECT SW BLOCK [E-8496A]

Ref. No.	Part No.	Part Name & Description	Remark s
CJ640	YEAE0115MPA	Connector, 15P	
CJ642	YEAE0104MPA	Connector, 4P	
CP641	YEAE012761	Connector, 14P	

### 1.6. **Electric Parts**

Ref. No.	Part No.	Part Name & Description	Remark s
SW602	YEAS08042	Switch	
SW901	YEAS09312	Switch	
SW902	YEAS09312	Switch	
SW903	YEAS09312	Switch	
SW904	YEAS09312	Switch	
SW905	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	YEAS09312	Switch	
SW909	YEAS09312	Switch	
SW910	YEAS09312	Switch	
SW911	YEAS09312	Switch	
SW912	YEAS09312	Switch	
SW913	YEAS09312	Switch	
SW914	YEAS09312	Switch	
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	YEAS09312	Switch	
SW918	YEAS09312	Switch	
SW919	YEAS09312	Switch	
SW920	YEAS09312	Switch	
SW921	YEAS09312	Switch	
SW922	YEAS09312	Switch	
SW610	YEAS09267	Switch	

**CRYSTALS** 

Ref. No.	Part No.	Part Name & Description	Remark s
XL400	YEXL49U072TA	Crystal OSC	
XL600	H0D125500002	Crystal OSC	
XL601	YEXL2RX0327	Crystal OSC	
XT900	YEXL49U0433T	Crystal OSC	

COILS

Ref. No.	Part No.	Part Name & Description	Remark s
L50	YELT03N330JT	Coil	
<b>L400</b>	YELT02C101KT	Coil	
L600	YELT02C470KT	Coil	
L601	YELT02C101KT	Coil	
L702	YETQ026F143	Coil	
L703	ELEAT330KA02	Coil	
T800	YELT02C101KT	Coil	
L900	YELT02C330KT	Coil	
L903	YELT02C330KT	Coil	
L901	YELT216825TG	Coil	
L902	YELTD75F101T	Coil	

LCD

Ref.	Part No.	Part Name & Description	Remark
No.			8
LCD901	EDD113YX1A4P	LCD	

LAMPS Part Name & Description

Ref. Part No. Remark No. Z50 YEAL02007T Neon Lamp CFL901 A2CA00000007 Display Tube

THERMISTOR

Ref.	Part No.	Part Name & Description	Remark
No.			8
PT701	YERT7AR4R7MT	Thermistor	

### 1.7. **Accessories**

PRINTING

Ref. No.	Part No.	Part Name & Description	Remark s
	YGFM282966	Operating Instructions	

INSTALLATION PARTS

Ref.	Part No.	Part Name & Description	Remark
No.			s
	YEAJ02793	Power Cord	
	YEAA33144	Antenna Accessory	
Δ	CR2025/1F	Battery	
	YEP9BS1111	Screws	
	YEFA131302	Removable Face Plate Case	
	YEFX0214198	Mounting Collar	
	YEFX9992013	Remote Controller	

### 1.8. **Mechanical Parts**

MISCELLANEOUS

		MISCELLANEOUS	
Ref. No.	Part No.	Part Name & Description	Remark s
F1 <b>A</b>	YEAF02015	Fuse, 15A	<u> </u>
ANT51	YEAA10090	Antenna Receptacle	
AT1	K4ZZ01000048	Terminal	
AT2	K4ZZ01000048	Terminal	
AT3	K4ZZ01000048	Terminal	<del>                                     </del>
CJ620	YEAET14B100A	Connector, 14P	<del>                                     </del>
CN251	YEAE012709	Connector, 2P RCA	<u> </u>
1	YEFA05594B	Bottom Cover	(1-B)
2	YEFA031359D	Upper Cover	(5-B)
3	YEFA08462AK	Rear Plate	(3-C)
4	YEFA131357	Cover, Escutcheon	(3-A)
5	YEFA09505	Side Plate	(1-C)
6	YEFC026169	Escutcheon Ass'y, Detachable	(2-A)
7	YEFC026028	Escutcheon Ass'y, Unit	(3-A)
8	YEFE135139	Button, SDM	(1-A)
9	YEFE135147	Button, EJECT	(3-A)
10	YEFE135141	Button, OPEN	(2-A)
11	YEFE135149	Button, PRESET	(2-A)
12	YEFE135146	Button, LEVEL/DIM	(1-A)
13	YEFE135137	Button, VOL UP	(1-B)
14	YEFE135138A	Button, VOL DOWN	(1-B)
15	YEFE135140A	Button, MODE/BAND	(1-A)
16	YEFF01922	Heat Sink	(4-B)
17	YEFJ05030	Color Rivet	(3-B)
18	YEFR04187	Lead Cap	(5-C)
19	YEFV011813	Insulator	(2-C)
20	YEFV011891	Insulator	(2-B)
21	YEFW04156	Shaft Collar(A)	(2-B)
22	YEFW04157	Shaft Collar(B)	(3-A)
23	YEFX0214422	Bracket, CN701	(3-C)
24	YEFX0214617	Bracket, Deck	(4-C)
25	YEFX0011816	Transparent Plate	(3-B)
26	YEFE135143	Button, SEL	(2-A)
27	YEFX0213945B	Bracket, IC241	(3-B)
28	YEFE135142	Button, ATT	(2-A)
29	YEFX0214423	Bracket, IC702	(3-B)
30	YEFE135144	Button, PWR	(2-A)
31	YEFX0214417	Bracket, LCD	(2-A)
32	YEFX007380	Cord Clamper	(3-C)
33	YEFX0052153	Spring	(1-B)
34	YEFX0052253	Spring	(2-A)
_			(2-B)

Ref. No.	Part No.	Part Name & Description	Remark s
35	YEP9FX089	Front Chassis Ass'y	(4-B)
36	YEP9FX069	Hook Bracket Ass'y	(3-B)
39	YEFV03457	Magnetic Shield	(2-A)
40	YEFX0213650	Bracket, RCA	(3-C)
43	YEFX0214418	Bracket, Inverter	(2-A)
45	YEFX0011815	Transparent Plate	(2-A)
46	YEFV021551	Optical Shade	(2-A)
47	YEFV021582	Optical Shade	(2-A)
48	YEFK06791A	Holder, CFL901	(1-B)
49	YEFC05558A	Trim Plate	(1-B)
51	YEJS06092	Screw, 3mm * 10mm	(4-A)
52	YEJS03020	Screw, 2mm * 4mm	(3-A)
53	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
54	YEJT03009	Tapping Screw, 3mm * 8mm	(2-B) (2-C)
55	YEJT03156	Tapping Screw, 2.6mm * 4mm	(3-A)
56	XSB26+4FX	Screw, 2.6mm * 4mm	
57	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	(2-B) (3-B)
58	XTB3+8GFX	Tapping Screw, 3mm * 8mm	(3-C)

# **MD Player Parts**

# IC's and Transistors MD SERVO BLOCK [D96222D/3] 2.1.

Ref. No.	Part No.	Part Name & Description	Remark s
IC101	AN8771NFE	IC	
IC201	YEAMBBDA1717	IC	
IC401	MN66614R4C1	IC	
IC451	YEAMHM1740L6	IC	
IC461	YEAMTC7SL08F	IC	
IC462	YEAMTC7SL08F	IC	
IC501	MN101C01DAF	IC	
IC551	YEAMMC3326D3	IC	
IC701	YEAMBA6891FP	IC	1 ***
Q101	2SB766ATX	Transistor	

# MOTOR BLOCK [MD1-001-1-01]

1	Part No.	Part Name & Description	Remark
No.			8
IC801	YEAMBA6858FP	IC	

### 2.2. **Diodes**

MD SERVO BLOCK [D96222D/3]

Ref. No.	Part No.	Part Name & Description	Remark s
D401	MA151ATX	Diode	
D701	YEADRD33M2T1	Diode	

# 2.3.

Capacitors
MD SERVO BLOCK [D96222D/3]

Ref. No.	Part No.	Part Name & Description	Remark
C101	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C102	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C103	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C104	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C105	YECUZ1H681JM	Ceramic, 680pF 50WV	
C106	YECUZ1H332KX	Ceramic, 3300µF 50WV	
C107	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C108	YECUZ1H332KX	Ceramic, 3300µF 50WV	
C109	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C110	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C111	YECUZ1H272KX	Ceramic, 2700µF 50WV	
C112	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C113	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C114	YECUZ1E223KX	Ceramic, 0.022µF 25WV	
C115	YECUS1C474KX	Ceramic, 0.47µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remark s
C116		Ceramic, 4700µF 50WV	ļ
C117	YECUZ1H472KX	<del> </del>	
C118	YECUZ1C823KX		-
C119 C120	YECUZ1C104KX	<del></del>	<del>                                     </del>
C121	YECUZ1H332KX	<del> </del>	<del>                                     </del>
C122	YECUS1ET106R		
C125	YECUZ1C104KX		-
C126	ECEHOJVC470F		†
C127	YECUS1C154KX		
C128	YECUZ1C333KX	Ceramic, 0.033µF 16WV	
C129	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C130	YECUZ1C333KX	Ceramic, 0.033µF 16WV	
C131	YECUS1C474KX	<del>                                     </del>	
C132	YECUZ1C104KX		ļ
C133	ECEHOJVC470F		
C134	YECUS1A105KX		<b>-</b>
C135	YECUS1A105KX	<del> </del>	<del> </del>
C136	YECUS1C224KX	·	<del> </del>
C137	YECUS1C224KX		1
C138	YECUZ1E223KX	Ceramic, 0.022vF 25WV	1
C144	YECUZ1C104KX		
C145	YECUZICIO4KX		<del> </del>
C146	YECUZICIO4KX		<del> </del>
C151	YECUZICIO4KX		<del> </del>
C201	YECUS1A105KX		
C202	YECUS1A105KX		<del>                                     </del>
C203	ECEH1CVC220F	Electrolytic, 22µF 16WV	<del> </del>
C204	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C205	YECUZ1C104KX		
C301	YECUZ1C104KX		
C401	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C402	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C403	YECUZ1H102KX	Ceramic, 1000pF 50WV	
C404	YECUS1A105KX	Ceramic, 1µF 10WV	
C405	YECUS1A105KX	Ceramic, 1µF 10WV	
C406	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C407	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C408	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C409 C410	YECUZ1C473KX	Ceramic, 0.047µF 16WV	-
C410	YECUZ1H103KX YECUZ1H222KX	Ceramic, 0.01µF 50WV	<del> </del>
C412	YECUZ1H222KX	Ceramic, 2200pF 50WV	
C413	YECUZ1H103KX		
C414		Ceramic, 0.01µF 50WV	
C415		Ceramic, 0.068µF 16WV Ceramic, 0.022µF 25WV	-
C416		Ceramic, 0.1µF 16WV	
C417		Ceramic, 0.1µF 16WV	<b> </b>
C418		Ceramic, 0.1µF 16WV	
C419		Ceramic, 0.1µF16WV	
C422		Ceramic, 0.1µF 16WV	
C425		Ceramic, 0.1µF 16WV	
C426	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C431	ECEHOJVC470F	Electrolytic, 47µF 6.3WV	
C432	ECEHOJVC470F	Electrolytic, 47µF 6.3WV	
C441	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C461	YECUZ1C104KX		
C462	t .	Ceramic, 0.1µF 16WV	
	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C501	ECEHOJVC470F	Electrolytic, 47µF 6.3WV	
C502			
C502 C503	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C502 C503 C551	YECUZ1C104KX YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C502 C503 C551 C552	YECUZ1C104KX YECUZ1C104KX YECSW1C106MS	Ceramic, 0.1µF 16WV Ceramic, 10µF 16WV	
C502 C503 C551 C552 C553	YECUZ1C104KX YECUZ1C104KX YECSW1C106MS YECUS1A105KX	Ceramic, 0.1µF 16WV Ceramic, 10µF 16WV Ceramic, 1µF 10WV	
C502 C503 C551 C552 C553	YECUZ1C104KX YECUZ1C104KX YECSW1C106MS YECUS1A105KX ECEH1CVC220F	Ceramic, 0.1µF 16WV Ceramic, 10µF 16WV Ceramic, 1µF 10WV Electrolytic, 22µF 16WV	
C502 C503 C551 C552 C553 C701	YECUZ1C104KX YECUZ1C104KX YECSW1C106MS YECUS1A105KX ECEH1CVC220F YECUZ1C104KX	Ceramic, 0.1µF 16WV Ceramic, 10µF 16WV Ceramic, 1µF 10WV Electrolytic, 22µF 16WV Ceramic, 0.1µF 16WV	
C502 C503 C551 C552 C553	YECUZ1C104KX YECUZ1C104KX YECSW1C106MS YECUS1A105KX ECEH1CVC220F YECUZ1C104KX YECUZ1H102KX	Ceramic, 0.1µF 16WV Ceramic, 10µF 16WV Ceramic, 1µF 10WV Electrolytic, 22µF 16WV	

MOTOR BLOCK [MD1-001-1-01]

ine retribuser (instruction)				
Ref. No.	Part No.	Part Name & Description	Remark s	
C802	YECUZ1C104KX	Ceramic, 0.1µF 16WV		
C803	YECUZ1C103KX	Ceramic, 0.01µF 16WV		
C804	YECUZ1C104KX	Ceramic, 0.1µF 16WV		
C805	YECUZ1C104KX	Ceramic, 0.1µF 16WV		

# 2.4.

2.4.		<b>OTS</b> SERVO BLOCK [D96222D/3]	
Ref.	Part No.	Part Name & Description	Remark
R101	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	8
R102	ERJ3GEYJ222V		
R103	ERJ3GEYJ102V		
R104		Chip, 39kΩ 1/16W	- t
R105	ERJ3GEYJ153V		
R106	ERJ3GEYJ102V		
R107	ERJ3GEYJ103V		
R108	ERJ3GEYJ102V		
R109	ERJ3GEYJ102V		
R110	ERJ3GEYJ223V		.
R111	ERJ3GEYJ103V		
R112	ERJ3GEYJ103V		
R113	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R114	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R117	ERJ3GEYJ222V		
R118	ERJ14YJ4R7H	Chip, 4.7Ω 1/16W	
R119	ERJ3GEYJ474V		
R120	ERJ3GEYJ471V	Chip, 470Ω 1/16W	
R122	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R133	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R134	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R135	ERJ3GEYJ103V		
R202	ERJ3GEYJ2R2V		
R401	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R402	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R403	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R404	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R407	ERJ3GEYJ391V	Chip, 390Ω 1/16W	
R408	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R409	ERJ3GEYJ391V	Chip, 390Ω 1/16W	
R411	ERJ3GEYJ471V	Chip, 470Ω 1/16W	
R412	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R413	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R414	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R415 R416	ERJ3GEYJ473V ERJ3GEYJ222V	Chip, 47kΩ 1/16W	<del></del>
R417	ERJ3GEYJ101V	Chip, 2.2kΩ 1/16W	
R418	ERJ3GEYJ122V	Chip, 100Ω 1/16W	-
R419	ERJ3GEYJ471V	Chip, 1.2kΩ 1/16W	<del></del>
R420	ERJ3GEYJ182V	Chip, 470Ω 1/16W	+
R421	ERJ3GEYJ103V	Chip, 1.8kΩ 1/16W Chip, 10kΩ 1/16W	
R422	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R425		Chip, 15kΩ 1/16W	
R426	ERJ3GEYJ153V		
R427	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R429	ERJ3GEYJ101V	Chip, 3.9k2 1/16W	
R432	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	<del></del>
R433	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R501	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R502	ERJ3GEYJ564V	Chip, 560kΩ 1/16W	
R511	ERJ3GEYJ332V	Chip, 3.3kΩ 1/16W	
R513		Chip, 3.3kΩ 1/16W	
R515		Chip, 3.3kΩ 1/16W	<del> </del>
R517		Chip, 3.3kΩ 1/16W	
R533		Chip, 10kΩ 1/16W	
R551		Chip, 330kΩ 1/16W	
R701		Chip, 27kΩ 1/16W	
R702		Chip, 22kΩ 1/16W	
R703		Chip, 1kΩ 1/16W	+
R704		Chip, 1kΩ 1/16W	
		Chip, 15kΩ 1/16W	_
	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	1

Ref. No.	Part No.	Part Name & Description	Remark s
R709	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R711	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R712	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R713	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R714	ERJ3GEYJ391V	Chip, 390Ω 1/16W	
R720	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R730	ERJ3GEYJ101V	Chip, 100Ω 1/16W	

# MOTOR BLOCK [MD1-001-1-01]

Ref. No.	Part No.	Part Name & Description	Remark s
R801	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R802	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R803	ERJ3GEYJ1R5V	Chip, 1.5Ω 1/16W	
R804	ERJ3GEYJ101V	Chip, 100Ω 1/16W	1//
R805	ERJ3GEYJ101V	Chip, 100Ω 1/16W	

### 2.5. **Connectors**

MD SERVO BLOCK [D96222D/3]

Ref. No.	Part No.	Part Name & Description	Remark s
CN1	YEAE0114TKCR	Connector, 14P	
CN101	YEAE5243521	Connector, 21P	
CN901	YEAE5274614	Connector, 14P	
CN902	YEAE5326104	Connector, 4P	

# MOTOR BLOCK [MD1-001-1-01]

Ref. No.	Part No.	Part Name & Description	Remark
CN801	YEAE5243612	Connector, 12P	
CN802	YEAE5274611	connector, 11P	

### 2.6. **Electric Parts**

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remark
SW1	YEAS09314	Switch	
SW2	YEAS09314	Switch	
SW3	YEAS09314	Switch	
SW4	YEAS09308	Switch	

CRYSTALS

Ref.	Part No.	Part Name & Description	Remark
XL401	YEXLSTCV169T	Crystal	
XL501	YEXLSTCC737T	Crystal	

VARIABLE RESISTOR

Ref.	Part No.	Part Name & Description	Remark
No.			8
VR11	YEVNP0Z3A104	Variable Resistor	

COILS

Ref.	Part No.	Part Name & Description	Remark
No.			s
L552	EXCCET103U	Coil	
L553	EXCCET103U	Coil	

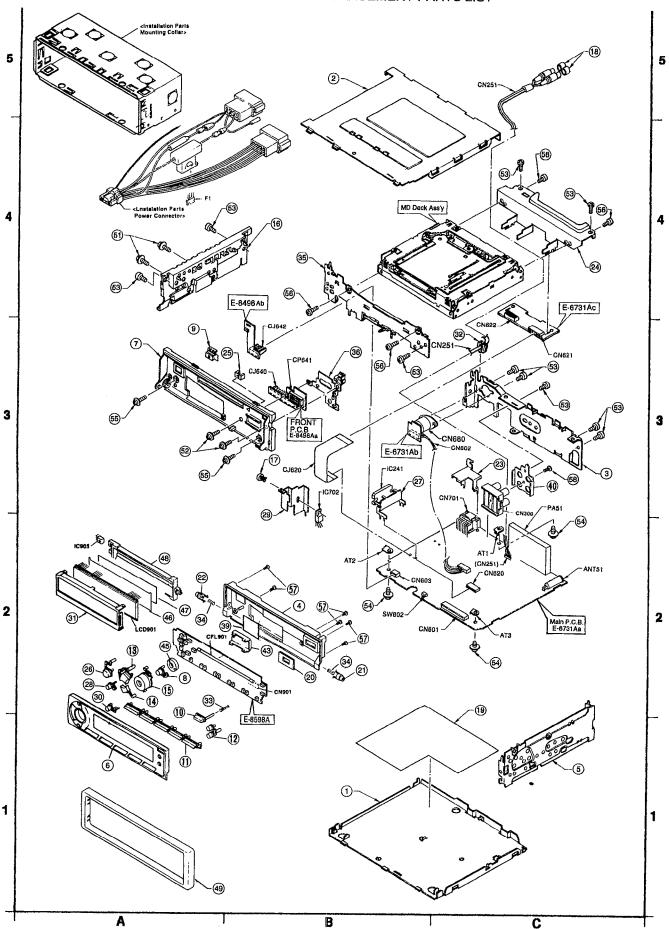
### 2.7. **Mechanical Parts**

**MISCELLANEOUS** 

Ref. No.	Part No.	Part Name & Description	Remark s
TP1	YEATSD00405	Terminal	
1	YESFA03049	UpperChassis	(4-B)
2	YESFS04012	Damper	(3-A) (4-B)
3	YESFX005107	Float Spring A	(3-B) (4-C)
4	YESFX005108	Float Spring B	(4-A) (4-B)
5	YESFX239011	Cartridge Holder Ass'y	(3-A)
6	YESFX046097	Slide Cam Plate L	(3-A)
7	YESFX046098	Slide Cam Plate R	(3-C)

Ref. No.	Part No.	Part Name & Description	Remark s
8	YESFX005109	Slide Cam Spring	(3-A) (3-C)
9	YESFA01058	Suspension Chassis Ass'y	(2-C)
10	YESFX046099	Suspension Lock B	(3-B)
11	YESFX046110	Actuator B	(3-B)
12	YESFX005110	Lock Spring B	(3-B)
13	YESFX046111	SW Actuator	(3-A)
14	YESFX005111	SW Actuator Spring	(3-A)
15	YESFX021107	Motor Bracket A	(2-A)
16	YESAK01020	Motor Ass'y	(2-B)
17	YESFX003069	Motor Gear B	(2-A)
18	YESFX999038	Feed Screw Ass'y	(2-A)
19	YESFX021108	Motor Bracket C	(3-B)
20	YESFX005112	Leaf Spring	(3-B)
21	BQL2A1CRH	Spindle Motor	(2-B)
22	YESFX046100	Spindle Motor Holder	(2-B)
23	YESFW01025	Spindle Motor Mounting	(3-B)
23	TESEMOTOZS	Bracket	(3-5)
25	YESFX046101	Lock Cam F	(2-B)
26	KLR1001J	Optical Pickup Ass'y	(2-C)
27	YESEW01026	Guide Shaft	(2-B)
28	YESFW01028	Sub Guide Shaft	(2-B)
29	YESFX005113	Shaft Holder R	(2-B)
29	TESEVOORITY	SHAFE HOLDER K	(3-C)
30	YESFX005114	Shaft Holder L	(2-B)
30	TEGE ROUGETT4	Sing t MOTHER H	(3-C)
31	YESFX046102	Feed Screw Housing Ass'y	(2-B)
32	YESFX005115	Guide Shaft Spring	(2-C)
33	YESFA01057	Main Chassis Ass'y	(1-B)
34	YESFX046103	Rink Plate L	(1-A)
35	YESFX046103	<del>                                     </del>	
	+	Rink Plate R	(2-B)
36	YESFX046105	Suspension Guide L Ass'y	(1-A)
37	YESFX046106	Suspension Guide L	(1-A)
38	YESFX046112	Suspension Guide R Ass'y	(1-C)
39	YESFX046107	Suspension Guide R	(1-B)
40	YESFX046108	Lock Plate F Ass'y	(1-C)
41	YESFX046109	Rack Plate Ass'y	(1-A)
42	YESFX003070	Gear E	(2-B)
43	YESFX018005	Gear Mounting Bracket Ass'y	(1-A)
44	YESFX003071	Gear D	(2-A)
45	YESFX003072	Gear C	(2-A)
46	YESAK01021	Loading Motor Ass'y	(1-A)
47	YESAJ02006	Motor Extension Cord	(2-A)
48	YESFX003073	Gear B	(2-A)
49	YESFX046113	SW Actuator E	(1-A)
51	YESFR01018	Clamper C	(1-A)
52	YESAP176	Motor FPC	(2-B)
100	YESJS01118	Screw, 2.6mm*3mm	(4-A)
			(4-B)
101	YESJS01119	Screw, 2mm*3.5mm	(3-A) (4-B)
102	YESJE01014	Retaining Ring, 2.1mm*5mm*0.4mm	
103	YESJS01120	Screw, 2.6mm*3.5mm	(3-B)
104	YESJS01121	Screw, 1.2mm*3mm	(2-A)
105	YESJT03054	Screw, 1.2mm*2mm	(2-B)
106	YESJS01122	Screw, 1.4mm*2.5mm	(2-A)
107	YESJS01122	Screw, 1.2mm*3mm	(2-B)
108	YESJS01123	Screw, 2mm*3mm	(2-B)
-00		JOLGE, Zimi: Jimi	(3-B)
109	YESJS01125	Screw, 1.4mm*1.5mm	(3-B)
110	YESJS01126	Screw, 1.7mm*3mm	(2-B)
111	YESJS01127	Screw, 1.7mm*5.5mm	(2-B)
113	YESJS01128	Screw, 1.7mm*2.5mm	(2-B)
114	YESJT03055	Screw, 2mm*3mm	+ <del>`'</del>
115	YESJS01129	Screw, 2mm*2mm	(2-B)
116	WD0755555		(3-C)
116	YESJS01130	Screw, 1.4mm*3mm	(2-B)
117	YESJS01131	Screw, 1.2mm*1.5mm	(2-C)
118	YESJE01027	E-Ring, 2mm	(1-B)
100	wng =======		(2-B)
120	YESJW01035	Washer, 1.65mm	(2-B)
123	YESJS01132	Screw, 2mm*2.2mm	(2-A)
124	YESJT03056	Camera Screw, 2.6mm*3mm	(1-C)
	L	i	(1-B)

**EXPLODED VIEW (Unit)**■ Numbers in ○ are indicated REF.NO. in the REPLACEMENT PARTS LIST



# **EXPLODED VIEW (MD Deck)**

■ Numbers in ○ are indicated REF.NO. in the REPLACEMENT PARTS LIST

