

FM TRANSCEIVER

FT-1900R

Technical Supplement

©2009 VERTEX STANDARD CO., LTD.

EH023N91A

VERTEX STANDARD CO., LTD.

4-8-8 Nakameguro, Meguro-Ku, Tokyo 153-8644, Japan

VERTEX STANDARD

US Headquarters

10900 Walker Street, Cypress, CA 90630, U.S.A.

YAESU UK LTD.

Unit 12, Sun Valley Business Park, Winnall Close Winchester, Hampshire, SO23 0LB, U.K.

VERTEX STANDARD HK LTD.

Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong

VERTEX STANDARD (AUSTRALIA) PTY., LTD.

Normanby Business Park, Unit 14/45 Normanby Road Notting Hill 3168, Victoria, Australia



Introduction

This manual provides technical information necessary for servicing the FT-1900R FM Transceiver.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

Two PCB layout diagrams are provided for each double-sided circuit board in the Transceiver. Each side of is referred to by the type of the majority of components installed on that side ("leaded" or "chip-only"). In most cases one side has only chip components, and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

While we believe the technical information in this manual to be correct, VERTEX STANDARD assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

Important Note

The transceiver was assembled using Pb (lead) free solder, based on the RoHS specification.

Only lead-free solder (Alloy Composition: Sn-3.0Ag-0.5Cu) should be used for repairs performed on this apparatus. The solder stated above utilizes the alloy composition required for compliance with the lead-free specification, and any solder with the above alloy composition may be used.

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Specifications

General

Frequency Range: Tx 144 - 146 MHz or 144 - 148 MHz

Rx 144 - 146 MHz or 136 - 174 MHz

Channel Step: 5/10/12.5/15/20/25/50/100 kHz

Standard Repeater Shift: ±600 kHz

Frequency Stability: Better than ±10 ppm [-4 °F to +140 °F (-20 °C to +60 °C)]

Modes of Emission: F2D/F3E

Antenna Impedance: 50 Ohms, unbalanced

Supply voltage: 13.8 V DC ±15%, negative ground

Current Consumption (typical): Rx: less than 0.7 A, less than 0.3 A (squelched)

Tx: 10 A (55 W) /7 A (25 W) /5 A (10 W) /4 A (5 W)

Operating Temperature Range: -4° F to $+140^{\circ}$ F (-20° C to $+60^{\circ}$ C)

Case Size (WxHxD): 5.5" x 1.6" x 5.7" (140 x 40 x 146 mm) (w/o knobs)

Weight (Approx.): 2.6 lb (1.2 kg)

Transmitter

Output Power:55 W/25 W/10 W/5 WModulation Type:Variable ReactanceMaximum Deviation:±5 kHz/±2.5 kHzSpurious Radiation:Better than -60 dB

Microphone Impedance: 2000 Ohms

Receiver

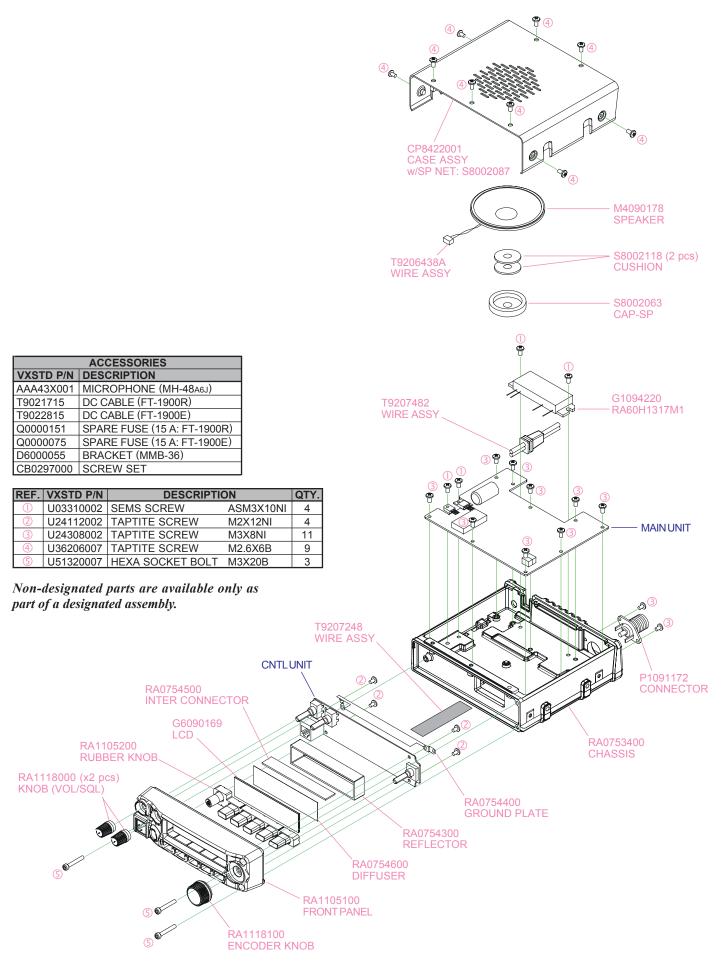
Circuit Type: Double Conversion Superheterodyne

 $\begin{array}{lll} \textbf{Ifs:} & 21.7 \text{ MHz \& } 450 \text{ kHz} \\ \textbf{Sensitivity (for 12dB SINAD):} & \text{Better than } 0.2 \text{ } \mu\text{V} \\ \textbf{Selectivity (-6/-60dB):} & 12 \text{ kHz/28 kHz} \\ \textbf{IF Rejection:} & \text{Better than } 70 \text{ dB} \\ \textbf{Image Rejection:} & \text{Better than } 70 \text{ dB} \\ \end{array}$

Maximum AF Output: 3 W into 4 Ohms @10 % THD

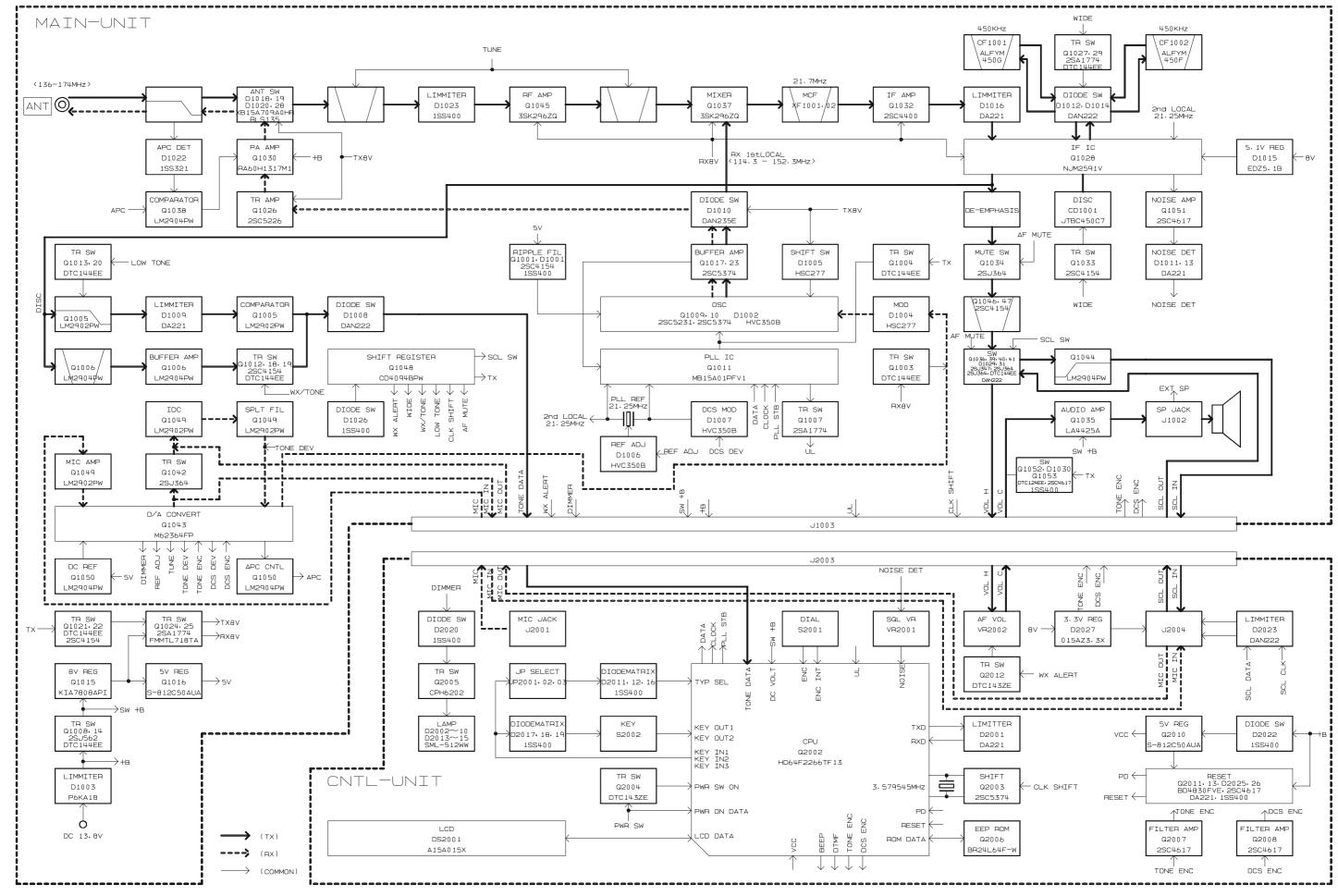
Specifications subject to change without notice or obligation. Specifications guaranteed only within Amateur band. Frequency ranges and functions will vary according to transceiver version; check with your dealer.

Exploded View & Miscellaneous Parts

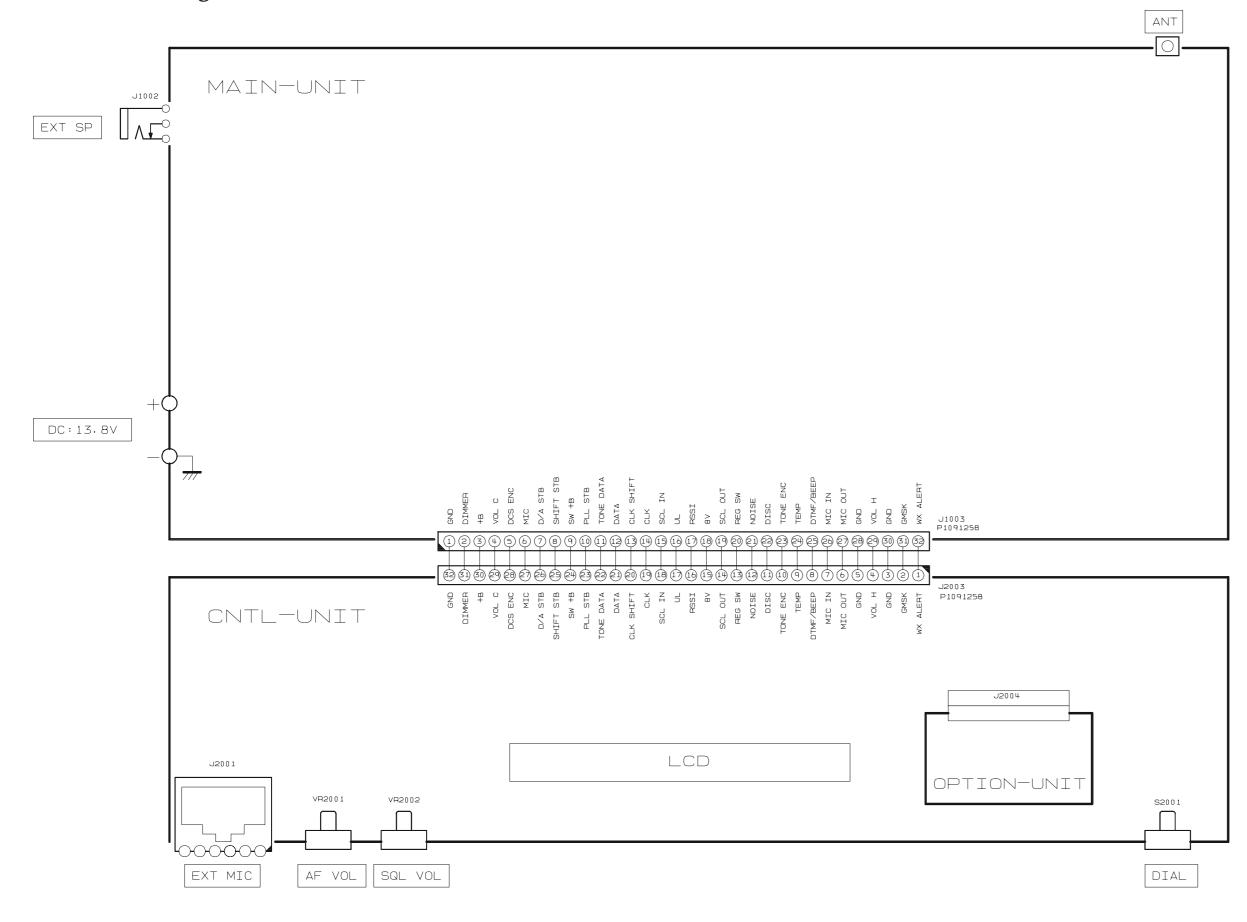


Note

Block Diagram



Connection Diagram



Circuit Description

Receive Signal Path

Incoming RF signal is from the antenna jack is delivered to the Main Unit and passed through the lowpass filter network consisting capacitors C1213, C1236, C1239, & C1241 and coils L1017, L1018, & L1019, antenna switching diode D1020 and D1028 (both **RLS135**), and varactor-tuned band-pass filter consisting of capacitors C1248, C1249, C1250, C1251, C1252, & C1268, coils L1020, L1021, & L1024, and diodes D1024 and D1025 (both HVC350B), before delivery to the RF amplifier Q1045 (3SK296ZQ). The amplified RF signal is passed through the another varactor-tuned band-pass filter consisting of capacitors C1198, 1199, 1200, & 1218, coils L1012 and L1015, and diodes D1017 and D1021 (both HVC350B), then applied to the 1st mixer Q1037 (3SK296ZQ) along with the first local signal from the PLL circuit.

The first local signal is generated between 114.3 MHz and 152.3 MHz by the VCO, which consists of **Q1009** (**2SC5231**) and varactor diode **D1002** (**HVC350B**) according to the receiving frequency.

IF and Audio Circuits

The 21.7 MHz first IF signal is applied to the monolithic crystal filters **XF1001** and **XF1002** which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifier **Q1032** (**2SC4400**). The amplified first IF signal is then delivered to the FM IF subsystem IC **Q1028** (**NJM2591V**), which contains the second mixer, limiter amplifier, noise amplifier, and FM detector.

The second local signal is generated by 21.25 MHz crystal **X1001**, produces the 450 kHz second IF signal when mixed with first IF signal within **Q1028** (**NJM2591V**).

The 450 kHz second IF signal is applied to the ceramic filter **CF1001** (for Narrow FM) or **CF1002** (for Wide FM) which strip away unwanted mixer products to the ceramic discriminator **CD1001** which removes any amplitude variations in the 450 kHz IF signal before detection of speech.

The detected audio from the Q1028 (NJM2591V) passes through the de-emphasis circuit consisting of resistors R1082 & R1113, and capacitors C1120 & C1122, to the audio mute gate Q1034 (2SJ364)

The audio signal passes through a band-pass filter consisting of Q1046 and Q1047 (both 2SC4154), and the audio mute gate Q1039 (2SJ347), to the audio VR which adjusts the audio sensitivity to compensate for audio level variations. The adjusted audio signal is delivered to the audio amplifier Q1035 (LA4425A) which provides up to 3 Watts, to the external speaker jack or a 4-Ohm loudspeaker.

Squelch Control

When no carrier received, the noise signal from Q1028 (NJM2591V) is amplified by Q1051 (2SC4617), and is detected by D1011 and D1013 (both DA221). The resulting DC voltage passes through the SQL knob to main CPU Q2002 (HD64F2266TF13). While no carrier is received, main CPU Q2002 (HD64F2266TF13) control Q1048 (CD4094BPWR), thus, audio mute gate Q1034 (2SJ364) and Q1039 (2SJ347) turns "OFF" to disable the audio output from the speaker.

Transmit Signal Path

The speech signal from the microphone is amplified by Q1049 (LA2902PWR). The amplified speech signal is subjected to the low-pass filter network Q1049 (LA2902PWR) to deviation controlled by Q1043 (M62364FP).

The adjusted speech signal from Q1043 (M62364FP) is delivered to VCO Q1009 (2SC5231) which frequency modulates the transmitting VCO made up of D1004 (HSC277).

The modulated transmit signal passes through buffer amplifier Q1010 and Q1023 (both 2SC5374).

The transmit signal applied to the drive amplifier Q1026 (2SC5226), then finally amplified by power amplifier module Q1030 (RA60H1317M) up to 50 Watts. The APC circuit controls the Q1030 (RA60H1317M) power amplifier's gain.

The 50 Watts RF signal passes through low-pass filter network consisting of Capacitors C1210 and C1211 and coil L1013, antenna switch **D1018** and **D1019** (both **XB15A709**), and another low-pass filter network consisting capacitors C1213, C1236, C1239, & C1241 and coils L1017, L1018, & L1019, and then deliver to the ANT jack.

Circuit Description

TX APC Circuit

A portion of the power amplifier module output is rectified by D1022 (1SS321), then delivered to APC Q1038 (LM2904PWR), as a DC voltage which is proportional to the output level of the power amplifier module.

The APC Q1038 (LM2904PWR) is compared the rectified DC voltage from the power amplifier module and the reference voltage from the main CPU Q2002 (HD64F2266TF13), to produce a control voltage, which regulates supply voltage to the power amplifier module Q1030 (RA60H1317M), so as to maintain stable output power under varying antenna loading condition.

PLL

A portion of the output from the VCO Q1009 (2SC5231) passes through the buffer amplifier Q1010 and Q1017 (both 2SC5374), then delivered to the programmable divider section of the PLL IC Q1011 (MB15A01PFV1), which divided according

to the frequency dividing data that is associated with the setting frequency input from the main CPU Q2002 (HD64F2266TF13). It is then sent to the phase comparator section of the PLL IC Q1011 (MB15A01PFV1).

The 21.25 MHz frequency of the reference oscillator circuit made up of **X1001** is divided by the reference frequency divider section of **Q1011** (**MB15A01PFV1**) into 4250 or 3400 parts to become 5 kHz or 6.25 kHz comparative reference frequencies, which are utilized by the phase comparator section of **Q1011** (**MB15A01PFV1**).

The phase comparator section of Q1011 (MB15A01PFV1) compares the phase between the frequency-divided oscillation frequency of the VCO circuit and comparative frequency and its output is a pulse corresponding to the phase difference. This pulse is integrated by the charge pump and loop filter into a control voltage (VCV) to control the oscillation frequency of the VCO Q1009 (2SC5231).

Introduction

The FT-1900R is carefully aligned at the factory for the specified performance across the amateur band. Realignment should therefore not be necessary except in the event of a component failure. Only an authorized Vertex Standard representative should perform all component replacement and service, or the warranty policy may be void.

The following procedures cover the adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts subsequently are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized Vertex Standard service technicians who are experienced with the circuitry and fully equipped for repair and alignment. If a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized Vertex Standard service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components.

Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, Vertex Standard reserves the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners.

Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and realignment determined to be absolutely necessary.

Required Test Equipment

The following test equipment (and familiarity with its use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards.

Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning and, follow all of the steps in a section in the order presented.

- ☐ RF Signal Generator with calibrated output level at 200 MHz
- ☐ Deviation Meter (linear detector)
- ☐ In-line Wattmeter with 5% accuracy at 200 MHz
- □ 50-Ohm 50-W RF Dummy Load
- ☐ 8-Ohm AF Dummy Load
- ☐ Regulated DC Power Supply adjustable from 6 to 15 VDC, 10A
- ☐ Frequency Counter: 0.2-ppm accuracy at 200 MHz
- ☐ AF Signal Generator
- ☐ AC Voltmeter
- ☐ DC Voltmeter: high impedance
- ☐ VHF Sampling Coupler
- ☐ SINAD Meter

Alignment

Alignment Preparation & Precautions

A 50-Ohm RF load and in-line wattmeter must be connected to the antenna jack in all procedures that call for transmission; alignment is not possible with an antenna. After completing one step, read the next step to see if the same test equipment is required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 68 °F ~ 86 °F (20 °C ~ 30 °C). When the transceiver is brought into the shop from hot or cold air, it should be allowed some time to come to room temperature before alignment. Whenever possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

Note: Signal levels in dB referred to in the alignment procedure are based on $0dB\mu = 0.5\mu V$.

Test Setup

Set up the test equipment as shown below for transceiver alignment.

Entering the Alignment Mode

Alignment of the FT-1900R is performed using a front panel software-based procedure. To perform alignment of the transceiver, it must first be placed in the "Alignment Mode," in which the adjustments will be made and then stored into memory.

To enter the Alignment mode:

- 1. Press and hold in the [MHz(SET)] key while turning the radio on.
- 2. Press and hold in the [**PWR(b**)] switch for 1/2 second to turn the radio off.
- 3. To enter the Alignment mode, press and hold in the [REV(DW)] and [D/MR(MW)] keys while turning the radio on. Once the radio is on, release these two key. The transceiver is now in the "Alignment Mode."

PLL Reference Frequency

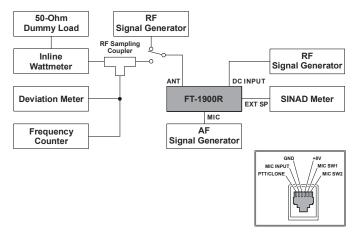
- ☐ Rotate the **DIAL** knob to set the alignment parameter to "**BO201 rF**."
- ☐ Press the [**D/MR(MW**)] key to enable adjustment of the "PLL Reference Frequency."
- ☐ Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the counter frequency reading is 148.000 MHz (±100 Hz).
- \square Press the [**D/MR(MW)**] key.

RF Front-end Tuning

- □ Inject a 145.100 MHz signal at a level of −10 dBµ (with 1 kHz modulation @±3.5 kHz deviation) from the RF signal generator.
- ☐ Rotate the **DIAL** knob to set the alignment parameter to "**B0111 tn**."
- ☐ Press the [**D/MR(MW**)] key to enable adjustment of the "RF Front-end Tuning."
- ☐ Adjust the **DIAL** knob so that the maximum SINAD.
- \square Press the [**D/MR(MW)**] key.

Squelch Threshold Level

- □ Inject a 145.100 MHz signal at a level of −14 dBµ (with 1 kHz modulation @±3.5 kHz deviation) from the RF signal generator.
- ☐ Rotate the **SQL** knob to the 10-o'clocl position.
- ☐ Rotate the **DIAL** knob to set the alignment parameter to "**B0111 tL**."
- ☐ Press the [**D/MR(MW**)] key to enable adjustment of the "Squelch Threshold Level."
- \square Press the [**D/MR(MW)**] key three times.
- \square Press the [**D/MR(MW)**] key.



TEST EQUIPMENT SETUP

	8
S-meter Level (S-1)	TX Power (Low 2)
☐ Inject a 145.100 MHz signal at a level of –5 dBµ (with 1 kHz modulation @±3.5 kHz deviation)	☐ Rotate the DIAL knob to set the alignment parameter to " B0101 L2 ."
from the RF signal generator.	☐ Press the [D/MR(MW)] key to enable adjustment
☐ Rotate the DIAL knob to set the alignment pa-	of the "TX Power (Low 2)."
rameter to "B0111 S1."	☐ Press the PTT switch to activate the transmitter,
☐ Press the [D/MR(MW)] key to enable adjustment	adjust the DIAL knob so that the RF Power Meter
of the "S-meter Level (S-1)."	reading is 10 W (±1.0 W).
\square Press the [D/MR(MW)] key three times.	☐ Press the [D/MR(MW)] key.
\square Press the [D/MR(MW)] key.	
	TX Power (Low 1)
S-meter Level (S-9)	☐ Rotate the DIAL knob to set the alignment pa-
\square Inject a 145.100 MHz signal at a level of +20 dB μ	rameter to "B0101 L1."
(with 1 kHz modulation @±3.5 kHz deviation)	\square Press the [D/MR(MW)] key to enable adjustment
from the RF signal generator.	of the "TX Power (Low 1)."
☐ Rotate the DIAL knob to set the alignment pa-	☐ Press the PTT switch to activate the transmitter,
rameter to "B0111 S9."	adjust the DIAL knob so that the RF Power Meter
\square Press the [D/MR(MW)] key to enable adjustment	reading is 5 W (±0.5 W).
of the "S-meter Level (S-9)."	☐ Press the [D/MR(MW)] key.
Press the [D/MR(MW)] key three times.	
☐ Press the [D/MR(MW)] key.	TX Deviation
TTV D (II' 1)	☐ Inject a 1 kHz, 50 mV signal from the Audio Gen-
TX Power (High)	erator.
☐ Rotate the DIAL knob to set the alignment parameter to "PRACALIB"	□ Rotate the DIAL knob to set the alignment pa-
rameter to "B0101 HP."	rameter to "B0101 dU."
☐ Press the [D/MR(MW)] key to enable adjustment of the "TX Power (High)."	☐ Press the [D/MR(MW)] key to enable adjustment of the "TX Deviation."
☐ Press the PTT switch to activate the transmitter,	☐ Press the PTT switch to activate the transmitter,
adjust the DIAL knob so that the RF Power Meter	adjust the DIAL knob so that the Deviation Meter
reading is 50 W (±2.0W).	reading is 4.2 kHz (±0.1 kHz) (EXP version: 4.5
☐ Press the [D/MR(MW)] key.	$kHz \pm 0.1 \text{ kHz}$).
B Tress the [2/mix(mix/)] key.	☐ Press the [D/MR(MW)] key.
TX Power (Low 3)	is the same (is the control of the c
☐ Rotate the DIAL knob to set the alignment pa-	CTCSS TX Deviation
rameter to "B0101 L3."	☐ Rotate the DIAL knob to set the alignment pa-
☐ Press the [D/MR(MW)] key to enable adjustment	rameter to " B0101 100 ."
of the "TX Power (Low 3)."	☐ Press the [D/MR(MW)] key to enable adjustment
☐ Press the PTT switch to activate the transmitter,	of the "CTCSS TX Deviation."
adjust the DIAL knob so that the RF Power Meter	☐ Press the PTT switch to activate the transmitter,
reading is 25 W (±1.5 W).	adjust the DIAL knob so that the Deviation Meter
☐ Press the [D/MR(MW)] key.	reading is 0.6 kHz (±0.05 kHz).
	\square Press the [D/MR(MW)] key.

Alignment

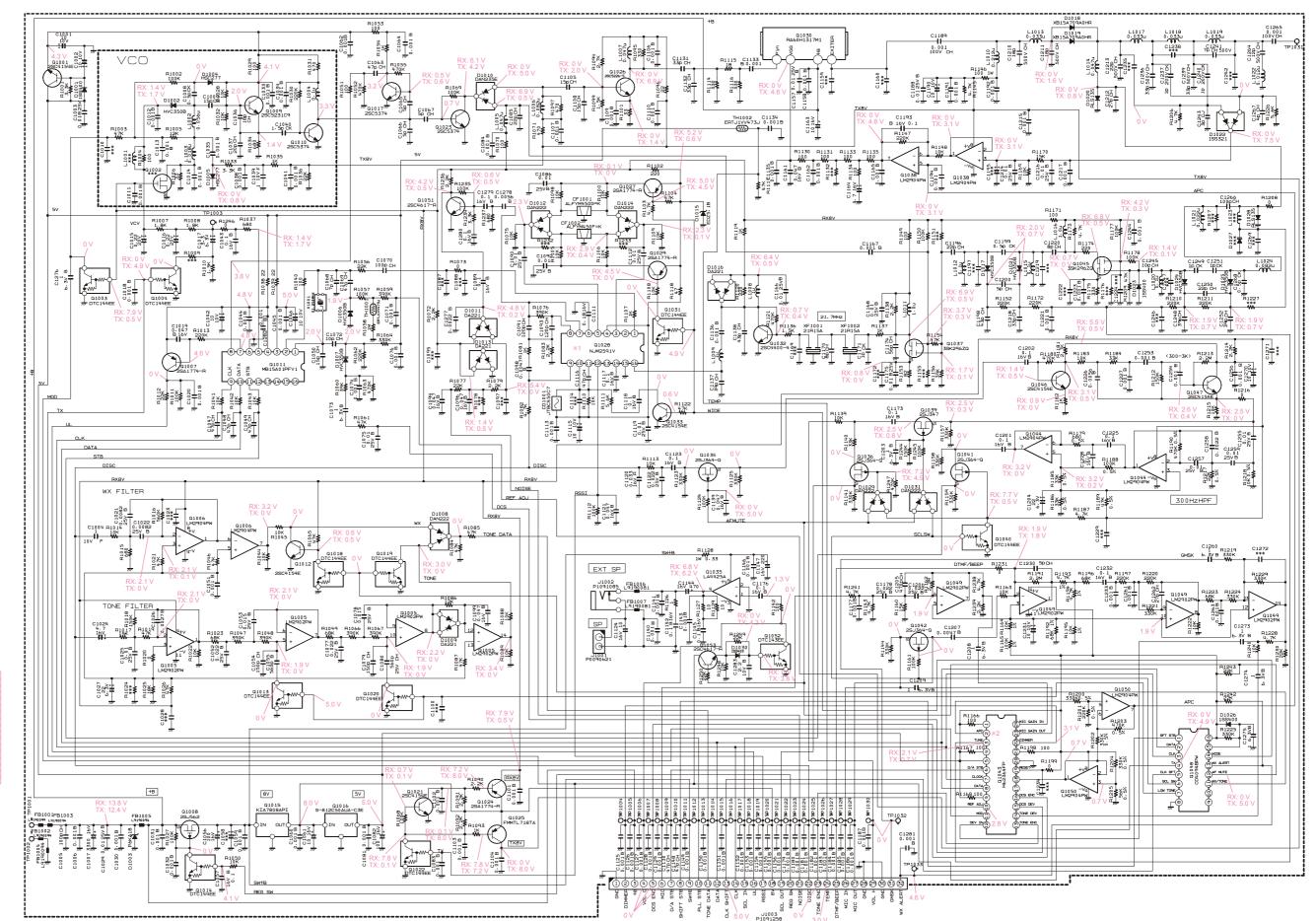
DCS TX Deviation

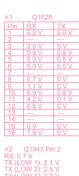
- ☐ Rotate the **DIAL** knob to set the alignment parameter to "**B0101 dC**."
- ☐ Press the [**D/MR(MW**)] key to enable adjustment of the "DCS TX Deviation."
- ☐ Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the Deviation Meter reading is 0.6 kHz (±0.05 kHz).
- \square Press the [**D/MR(MW)**] key.

Closing the Alignment mode

- 1. Press the [**DW**(**REV**)] key to save the new setting and exit to normal operation.
- 2. Press and hold in the [**PWR**(**b**)] switch for 1/2 second to turn the radio off.
- 3. Press and hold in the [MHz(SET)] key while turning the radio on.

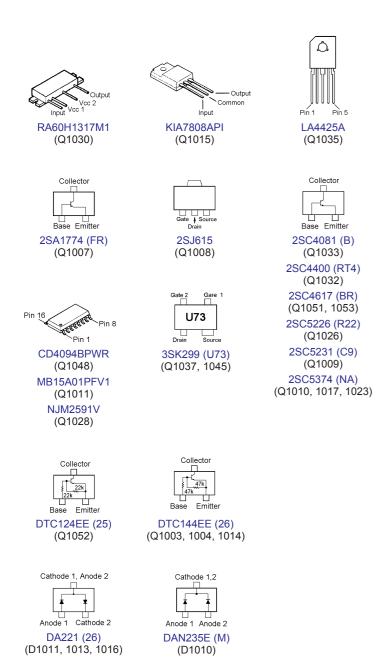
Circuit Diagram

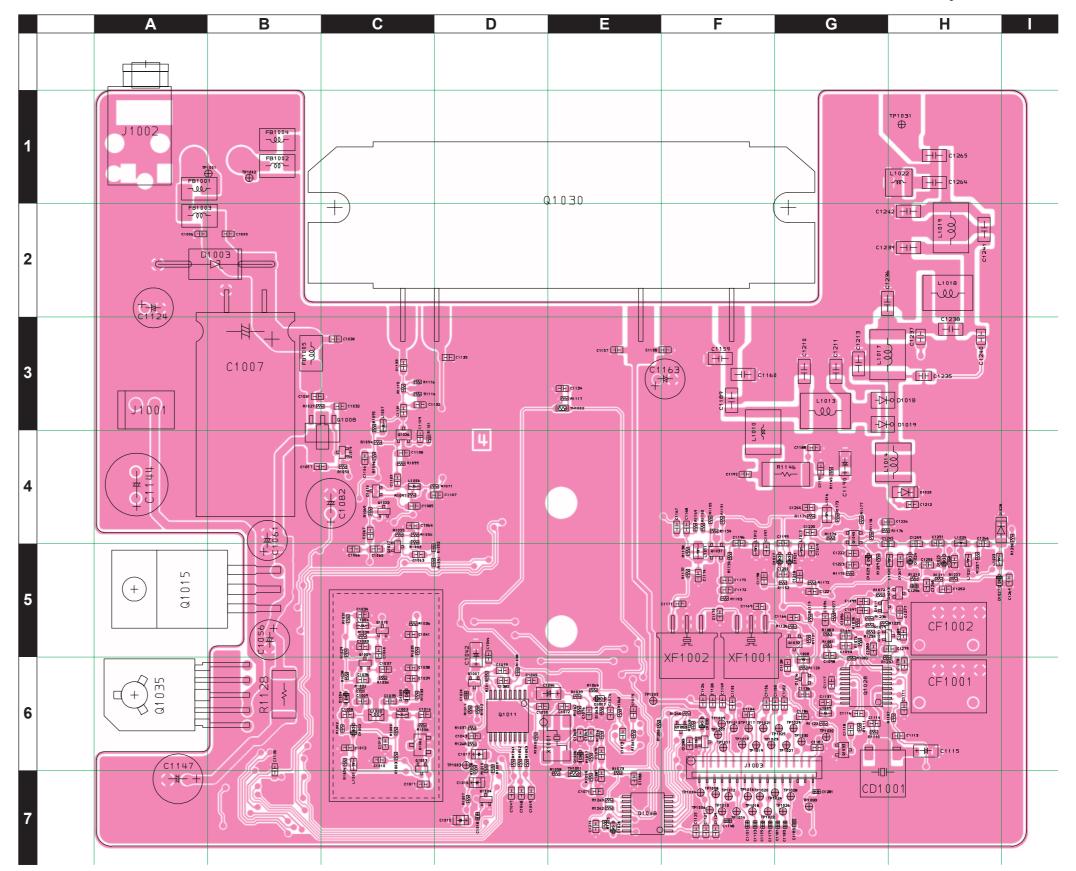




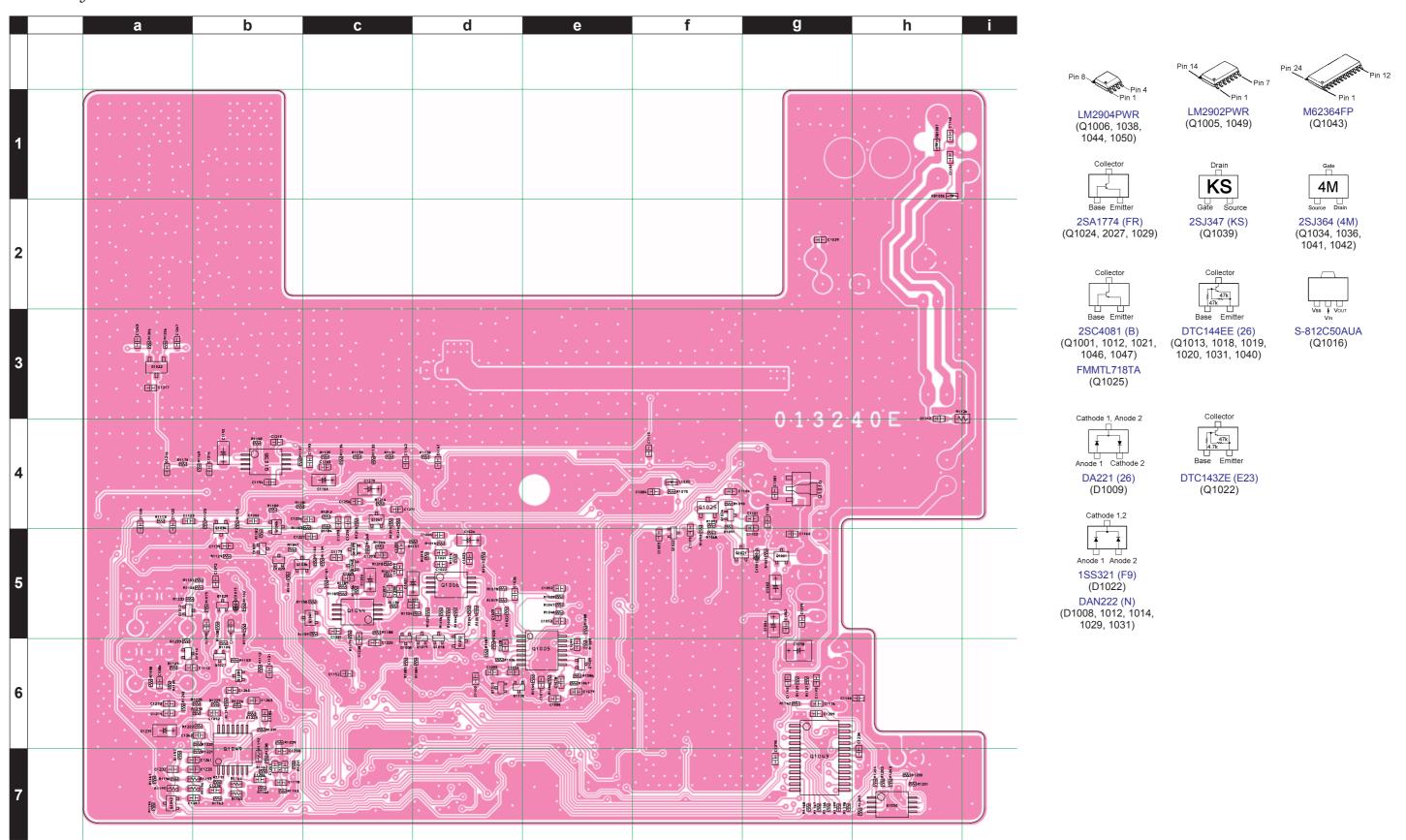
Note

Parts Layout (Side A)





Parts Layout (Side B)



MAIN Unit Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
	PCB with Components					CB3119006	CE:OFF, DST			
	Printed Circuit Board	T	Ι	1	AH023N000	CB3119007 FR013240E	<u>CE:OFF,DS1</u>	:EXP	2	<u> </u>
C 1001	CHIP TA.CAP.	10uF	10V		TAJA106M010Y	K78100072		1-	В	g5
C 1002	CHIP TA.CAP.	10uF	10V		TAJA106M010Y	K78100072		1-	В	g5
C 1003	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	g4
C 1004 C 1005	CHIPCAP.	1uF 100pF	10V 50V	F CH	GRM188F11A105ZA01D GRM1882C1H101JA01D	K22105001 K22174235		1- 1-	B A	d5 B2
C 1003	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174233		1-	A	A2
C 1007	AL.ELECTRO.CAP.	3300uF	16V		UVR1C332MHD	K40129106		1-	Α	B2
C 1008	CHIP CAP.	0.5pF	50V	CK	GRM1884C1HR50CZ01D	K22174201		1-	Α	C6
C 1009	CHIP CAP.	15pF	50V	CH	GRM1882C1H150JA01D	K22174215 K22174821		1-	A	C6
C 1011 C 1012	CHIPCAP.	0.001uF 0.001uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174821		1- 1-	A A	C7 C6
C 1012	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	C6
C 1014	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	C6
C 1015	CHIP TA.CAP.	0.22uF	20V		TMCP1D224MTRF	K78130069		1-	Α	D7
C 1016	CHIP TA.CAP.	0.22uF	20V		TMCP1D224MTRF	K78130069		1-	A	D7
C 1017 C 1018	CHIPTA.CAP.	3.3uF 0.001uF	6.3V 50V	В	TEESVP0J335M8R GRM155B11H102KA01D	K78080052 K22178809		1- 1-	A A	D6 D7
C 1018	CHIP CAP.	0.001uF 0.047uF	25V	В	GRM188B11E473KA01D	K22176609 K22144811		1-	A	D6
C 1020	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	A	D6
C 1021	CHIP CAP.	0.0082uF	50V	В	GRM188B11H822KA01D	K22174837		1-	В	d5
C 1022	CHIP CAP.	0.0082uF	50V	В	GRM188B11H822KA01D	K22174837		1-	В	d5
C 1024	CHIP TA.CAP.	1uF	25V	_	TEESVA1E105M8R	K78140013		1-	В	d5
C 1025 C 1026	CHIPCAP. CHIPCAP.	0.01uF 0.0027uF	50V 50V	B B	GRM188B11H103KA01D GRM188B11H272KA01D	K22174823 K22174814		1- 1-	B B	d5 d5
C 1020	CHIP TA.CAP.	1uF	25V		TEESVA1E105M8R	K78140013		1-	В	d5
C 1029	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	g2
C 1030	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	C3
C 1031	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	B3
C 1032 C 1033	CHIPCAP.	0.001uF 0.001uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174821 K22174821		1- 1-	A A	C3 C5
C 1033	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	C5
C 1035	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	C6
C 1036	CHIP CAP.	18pF	50V	CH	GRM1882C1H180JA01D	K22174217		1-	Α	C6
C 1037	CHIP CAP.	20pF	50V	CH	GRM1882C1H200JZ01D	K22174218		1-	Α	C6
C 1038	CHIP CAP.	0.001uF	50V	B	GRM188B11H102KA01D	K22174821		1-	A	C6
C 1039 C 1040	CHIPCAP. CHIPCAP.	1uF 1.5pF	10V 50V	CK	GRM188F11A105ZA01D GRM1884C1H1R5CZ01D	K22105001 K22174258		1- 1-	A A	C6 C5
C 1041	CHIP CAP.	0.001uF	50V	B	GRM188B11H102KA01D	K22174821		1-	A	C5
C 1042	CHIP TA.CAP.	10uF	10V		TAJA106M010Y	K78100072		1-	Α	D5
C 1043	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	Α	D6
C 1044	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	D5
C 1045 C 1046	CHIP CAP. CHIP TA.CAP.	0.001uF 10uF	50V 10V	В	GRM188B11H102KA01D TAJA106M010Y	K22174821 K78100072		1- 1-	A A	D6 D6
C 1040	CHIP CAP.	47pF	50V	СН	GRM1882C1H470JA01D	K22174227		1-	A	D7
C 1048	CHIP CAP.	47pF	50V	CH	GRM1882C1H470JA01D	K22174227		1-	Α	D7
C 1049	CHIP CAP.	47pF	50V	CH	GRM1882C1H470JA01D	K22174227		1-	Α	D7
C 1050	CHIP CAP.	15pF	50V	CH	GRM1882C1H150JA01D	K22174215		1-	A	D6
C 1051 C 1052	CHIP CAP.	0.001uF 0.022uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H223KA01D	K22174821 K22174839		1- 1-	B B	d5 e5
C 1052	CHIP CAP.	0.022uF 0.015uF	50V	В	GRM188B11H153KA01D	K22174838		1-	В	e5 e5
C 1054	CHIP CAP.	150pF	50V	CH	GRM1882C1H151JA01D	K22174239		1-	В	d6
C 1055	CHIP CAP.	560pF	50V	В	GRM188B11H561KA01D	K22174806		1-	В	d6
C 1056	AL.ELECTRO.CAP.	100uF	16V	_	UVR1C101MDD	K40129104		1-	A	B5
C 1057 C 1059	CHIP CAP.	0.1uF 0.001uF	16V 50V	B B	GRM188B11C104KA01D GRM188B11H102KA01D	K22124805 K22174821		1- 1-	A B	B4 g5
C 1059	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	g5 g5
C 1061	AL.ELECTRO.CAP.	10uF	16V	-	UVR1C100MDD	K40129103		1-	A	B5
C 1062	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	g5
C 1063	CHIP CAP.	47pF	50V	CH	GRM1882C1H470JA01D	K22174227		1-	A	C5
C 1064	CHIP CAP.	0.001uF	50V 50V	B CH	GRM188B11H102KA01D	K22174821		1- 1-	A	C4
C 1065 C 1066	CHIP CAP.	5pF 5pF	50V	CH	GRM1882C1H5R0CZ01D GRM1882C1H5R0CZ01D	K22174206 K22174206		1- 1-	A A	C5 C5
C 1067	CHIP CAP.	5pF	50V	CH	GRM1882C1H5R0CZ01D	K22174200 K22174206		1-	A	C4
C 1068	CHIP CAP.	7pF	50V	CH	GRM1882C1H7R0DZ01D	K22174208		1-	A	E6
C 1069	CHIP CAP.	47pF	50V	CH	GRM1882C1H470JA01D	K22174227		1-	Α	E6
C 1070	CHIP CAP.	100pF	50V	CH	GRM1882C1H101JA01D	K22174235		1-	A	E6
C 1071 C 1072	CHIP CAP.	0.001uF 10pF	50V 50V	B CH	GRM188B11H102KA01D GRM1882C1H100JA01D	K22174821 K22174211		1- 1-	A A	E7 E6
C 1072	CHIP CAP.	4.7uF	6.3V	В	JMK107BJ475MA-T	K22084803		1- 1-	A	E6
C 1074	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	E6
C 1076	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	E6
C 1077	CHIPCAP.	0.022uF	50V	В	GRM188B11H223KA01D	K22174839		1-	В	e6

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT		LAY ADR
C 1078	CHIP CAP.	0.015uF	50V	В	GRM188B11H153KA01D	K22174838		1-	В	e6
C 1079	CHIP CAP.	150pF	50V	CH	GRM1882C1H151JA01D	K22174239		1-	В	e6
C 1080	CHIP CAP.	560pF	50V	CH	GRM1882C1H561JA01D	K22174273		1-	В	e6
C 1081 C 1082	CHIPCAP. AL.ELECTRO.CAP.	0.001uF 100uF	50V 16V	В	GRM188B11H102KA01D USR1C101MDD	K22174821 K40129110		1- 1-	B A	g4 C4
C 1082	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	f5
C 1084	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		i-	В	f4
C 1085	CHIP CAP.	22pF	50V	CH	GRM1882C1H220JA01D	K22174219		1-	A	C4
C 1086	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	a6
C 1089	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	Α	H5
C 1090	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	b5
C 1091 C 1092	CHIPCAP.	120pF 0.01uF	50V 50V	CH B	GRM1882C1H121JA01D GRM188B11H103KA01D	K22174237 K22174823		1- 1-	A B	G5 b5
C 1092	CHIP CAP.	120pF	50V	CH	GRM1882C1H121JA01D	K22174023		1-	A	G5
C 1094	CHIP CAP.	0.047uF	25V	В	GRM188B11E473KA01D	K22144811		i-	A	G5
C 1096	CHIP CAP.	0.047uF	25V	В	GRM188B11E473KA01D	K22144811		1-	Α	G5
C 1098	CHIP CAP.	0.0047uF	50V	В	GRM188B11H472KA01D	K22174817		1-	Α	G5
C 1099	CHIP CAP.	0.047uF	16V	В	GRM39B473K16PT	K22124804		1-	В	e6
C 1099	CHIP CAP.	0.047uF	25V	В	GRM188B11E473KA01D	K22144811		1-	В	e6
C 1101 C 1101	CHIPCAP.	0.001uF 0.001uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174809 K22174821		1- 1-	B B	g4
C 1101	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	g4 g4
C 1102	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	f5
C 1104	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	f4
C 1105	CHIP CAP.	15pF	50V	CH	GRM1882C1H150JA01D	K22174215		1-	Α	C4
C 1106	CHIPCAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	C4
C 1107	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	D4
C 1108 C 1109	CHIP CAP.	15pF	50V 50V	CH	GRM1882C1H150JA01D	K22174215		1- 1-	A	C4 C4
C 1109	CHIP CAP.	0.001uF 0.001uF	50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174821 K22174821		1-	A B	f4
C 1111	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	Ā	H6
C 1112	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	a6
C 1113	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	H6
C 1114	CHIPCAP.	47pF	50V	CH	GRM1882C1H470JA01D	K22174227		1-	Α	G6
C 1115	CHIP TA.CAP.	10uF	10V	O	TAJA106M010Y	K78100072		1-	A	H6
C 1116 C 1117	CHIP CAP.	47pF 0.1uF	50V 16V	CH B	GRM1882C1H470JA01D GRM188B11C104KA01D	K22174227 K22124805		1- 1-	A	G6 G6
C 1117	CHIP CAP.	0.1uF 0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	A	G6
C 1119	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	b5
C 1120	CHIP CAP.	0.033uF	16V	R	GRM188R11C333KA01D	K22124801		1-	В	a4
C 1121	CHIP CAP.	0.047uF	25V	В	GRM188B11E473KA01D	K22144811		1-	В	b6
C 1122	CHIPCAP.	0.022uF	50V	В	GRM188B11H223KA01D	K22174839		1-	В	a4
C 1123	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	В	a4
C 1124 C 1125	AL.ELECTRO.CAP.	10uF	16V	D D	RE2-16V100ME3#	K40129004 K22174821		1- 1-	A	A2
C 1125	CHIP CAP.	0.001uF 0.001uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174821		1-	A	F7 F6
C 1127	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Â	F7
C 1128	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	F6
C 1129	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	F7
C 1130	CHIPCAP.	47pF	50V	CH	GRM1882C1H470JA01D	K22174227		1-	Α	B6
C 1131	CHIP CAP.	33pF	50V	CH	GRM1882C1H330JA01D	K22174223		1-	Α	C3
C 1132	CHIP CAP.	33pF	50V	CH	GRM1882C1H330JA01D	K22174223		1-	A	C3
C 1133	CHIP CAP.	0.001uF 0.001uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174821 K22174821		1-	A	C3 E3
C 1135	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Â	D3
C 1136	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	G6
C 1137	CHIP CAP.	39pF	50V	CH	GRM1882C1H390JA01D	K22174225		1-	Α	G6
C 1138	CHIP CAP.	43pF	50V	CH	GRM1882C1H430JZ01D	K22174226		1-	Α	G6
C 1139	CHIP CAP.	0.047uF	25V	В	GRM188B11E473KA01D	K22144811		1-	В	b5
C 1140	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	h1
C 1141	CHIP CAP.	0.001uF 0.1uF	50V 16V	B B	GRM188B11H102KA01D GRM188B11C104KA01D	K22174821 K22124805		1-	B B	h1 h3
C 1142	CHIP CAP.	0.1uF 0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	g6
C 1144	AL.ELECTRO.CAP.	470uF	16V	-	UVR1C471MPD	K40129108		1-	A	A4
C 1145	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	В	g6
C 1146	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	h6
C 1147	AL.ELECTRO.CAP.	220uF	16V	<u> </u>	UVR1C221MED	K40129105		1-	A	A7
C 1148	CHIP CAP.	47pF	50V	CH	GRM1552C1H470JZ01D	K22178228		1-	A	F7
C 1149 C 1150	CHIP CAP.	0.001uF 0.001uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H102KA01D	K22174821 K22174821		1- 1-	A	F6 F6
C 1150	CHIP CAP.	0.001uF 0.001uF	50V 50V	В	GRM155B11H102KA01D	K22174821 K22178809		1-	A	F7
C 1151	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	B	c6
C 1153	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	A	F7
C 1154	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	F6
C 1155	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	F7

C1150 CHIPCAP	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
C 1168											
C1162 CHE/CAP. 0.0474						1					
C1163 ALECTROCAP						1					
C 1164						1					
C1168 CHIPTACAP,					В						
C1166 CHIPCAP											
C 1166						1					
C1168 CHIPCAP						1					
C 1170 CHIPCAP						1					
C 1171						1					
C 1171						1					
C 1173											
C1175 CHIPCAP, 666F 50V CH GRM1882CH1650LA01D K22174229 1 A F5 C1176 CHIPCAP, 0.01uF 50V B GRM188811H103KA01D K22174229 1 A F5 C1176 CHIPCAP, 0.01uF 50V B GRM18881H102KA01D K22174823 1 A F5 C1177 CHIPCAP, 0.02uF 50V B GRM18881H102KA01D K22174833 1 A F5 C1178 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174833 1 A F7 C1180 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174833 1 A F7 C1180 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174830 1 A F7 C1180 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174830 1 A F7 C1180 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174830 1 A G7 C1182 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174830 1 A G7 C1182 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174830 1 A G7 C1185 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174830 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174820 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174821 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174821 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174821 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174821 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174821 1 A G7 C1186 CHIPCAP, 0.001uF 50V B GRM18881H102KA01D K22174821 1 A G7 GRM1881H102KA01D K22174821 1 A G7 GRM1881H102					1						
C 1176 CHIPCAP				50V		1			1-		F5
C 1177		CHIP CAP.		50V		GRM188B11H103KA01D			1-		F5
C 1178						1					
C 1190 C 1190 C 1190 C 1190 C 1190 C 1191 C 1190 C 1191 C						1				В	
C 1180 CHIPCAP.						1					
C 1181						1					
C 1182						1					
C 1183						1					
C 1198						1					
C 1188						1					
C 1198 CHIPCAP.											
C 1187 CHIPCAP. 0.001uF 50V B GRM188811H102KA01D K22174823 1. A G6 C 1189 CHIPCAP. 0.001uF 100V CH GRM31M2C2A102JZ01L K22201202 1. A F3 C C 1190 CHIPTACAP. 0.001uF 100V CH GRM31M2C2A102JZ01L K22201202 1. A F3 C C 1191 CHIPTACAP. 0.001uF 50V B GRM188811H102KA01D K22174821 1. A G4 C 1191 CHIPCAP. 0.001uF 50V B GRM188811H102KA01D K22174821 1. A G4 C 1193 CHIPCAP. 0.001uF 50V B GRM188811H102KA01D K22174821 1. A G4 C 1193 CHIPCAP. 0.001uF 50V B GRM188811H102KA01D K22174821 1. A G4 C 1194 CHIPCAP. 0.001uF 50V B GRM188811H102KA01D K22174821 1. A F4 C 1193 CHIPCAP. 0.001uF 50V B GRM188811C104KA01D K22174821 1. A F4 C 1199 CHIPCAP. 0.001uF 50V B GRM18881C104KA01D K22174821 1. B B C4 C 1199 CHIPCAP. 0.001uF 50V CH GRM1888C1H20JM01D K22174220 1. A F5 C 1200 CHIPCAP. 0.5pF 50V CH GRM1888C1H20JM01D K22174226 1. A F5 C 1200 CHIPCAP. 0.5pF 50V CH GRM1888C1H20JM01D K22174265 1. A G5 C 1200 CHIPCAP. 0.1uF 16V B GRM1888C1H30JM01D K22174265 1. A G5 C 1200 CHIPCAP. 0.1uF 16V B GRM1888C1H30JM01D K22174265 1. A G5 C 1200 CHIPCAP. 0.1uF 16V B GRM1888C1H30JM01D K22174265 1. B G5 C 1200 CHIPCAP. 0.1uF 16V B GRM1888C1H30JM01D K22174265 1. B G5 C 1200 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1. B G5 C 1200 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1. B G5 C 1200 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1. B G5 C 1200 CHIPCAP. 0.0047uF 50V B GRM188B11H102XM01D K22174249 1. B G5 C 1200 CHIPCAP. 0.0047uF 50V B GRM188B11H102XM01D K22174249 1. B G5 C 1200 CHIPCAP. 0.0047uF 50V B GRM188B11H102XM01D K22174249 1. B G5 C 1200 CHIPCAP. 0.0047uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1200 CHIPCAP. 0.0047uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1200 CHIPCAP. 0.0047uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1200 CHIPCAP. 0.001uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1210 CHIPCAP. 0.001uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1210 CHIPCAP. 0.001uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1210 CHIPCAP. 0.001uF 50V B GRM188B1H103KA01D K22174249 1. B G5 C 1210 CHIPCAP. 0.001uF 50V B GRM188B1H103KA01											
C 1188 CHIPCAP.		CHIP CAP.	0.001uF								
C 1190	C 1188		0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	Α	
C 1191					CH						
C 1192											
C 1193						1					
C 1194						1					
C 1196 CHIPCAP. 43pF 50V CH GRM1882C1H220JA01D K22174219 1- A F4 C 1198 CHIPCAP. 43pF 50V CH GRM1882C1H430JC01D K22174226 1- A G5 C 1199 CHIPCAP. 0.5pF 50V CK GRM1884C1H450D201D K22174265 1- A G5 C 1201 CHIPCAP. 0.1uF 16V B GRM188B1C104KA01D K22124265 1- B C5 C 1202 CHIPCAP. 0.1uF 16V B GRM188B1C104KA01D K22124805 1- B C5 C 1202 CHIPCAP. 1uF 16V B GRM188B1C104KA01D K22124805 1- B C5 C 1203 CHIPCAP. 1uF 6.3V B GRM188B11C104KA01D K22124805 1- B C5 C 1205 CHIPCAP. 1uF 6.3V B GRM188B11C104KA01D K22124805 1- B C5 C 1205 CHIPCAP. 470pF 50V CH GRM188B2C1H471JA01D K2217429 1- B C5 C 1205 CHIPCAP. 470pF 50V CH GRM188B2C1H471JA01D K2217429 1- B C5 C 1205 CHIPCAP. 0.0047uF 50V B GRM188B11H228KA01D K22174839 1- B D57 C 1206 CHIPCAP. 0.0047uF 50V B GRM188B11H228KA01D K22174839 1- B D57 C 1206 CHIPCAP. 0.0047uF 50V B GRM188B11H228KA01D K22174839 1- B D57 C 1208 CHIPCAP. 1uF 6.3V B GRM188B11H228KA01D K22174817 1- B D57 C 1208 CHIPCAP. 1uF 6.3V B GRM188B11H228KA01D K22084801 1- B D57 C 1200 CHIPCAP. 1uF 6.3V B GRM188B10J105KA01D K22084801 1- B D57 C 1200 CHIPCAP. 1uF 6.3V B GRM188B10J105KA01D K22084801 1- B D57 C 1200 CHIPCAP. 1uF 6.3V B GRM188B10J105KA01D K22084801 1- B D57 C 1200 CHIPCAP. 1uF 6.3V B GRM188B10J105KA01D K22084801 1- B D57 C 1200 CHIPCAP. 1uF 6.3V B GRM188B11H028KA01D K22084801 1- B D57 C 1200 CHIPCAP. 1bpF 500V CH CF316CH180J500AT K22271258 1- A G3 C 1211 CHIPCAP. 22pF 500V CH CF316CH180J500AT K22271258 1- A G3 C 1211 CHIPCAP. 22pF 500V CH CF316CH220J500AT K22271258 1- A G3 C 1214 CHIPCAP. 0.01uF 50V B GRM188B11H103KA01D K22174823 1- A G3 C 1214 CHIPCAP. 0.01uF 50V B GRM188B11H103KA01D K22174823 1- B D4 C 1215 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174823 1- B D4 C 1215 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174823 1- B D4 C 1215 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174821 1- A G5 C 1220 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174821 1- B D5 C 1220 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174821 1- A G5 C 1220 CHIPCAP. 0.001uF 50V B GRM188B11H03CKA01D K22174821 1- A G5 C 1220 CHIPC				-		1					
C 1198 CHIPCAP						1					
C 1199						1					
C 1200						1					
C 1201						1					
C 1202						1					
C 1204		CHIP CAP.	0.1uF	16V		GRM188B11C104KA01D	K22124805		1-	В	
C 1205				6.3V	В		K22084801				
C 1206											
C 1207 CHIPCAP. 0.0047uF 50V B GRM188B11H472KA01D K22174817 1- B b7 C 1208 CHIPCAP. 1uF 6.3V B GRM188B10J105KA01D K22084801 1- B b7 C 1209 CHIPCAP. 1uF 6.3V B GRM188B10J105KA01D K22084801 1- B g6 G 1210 CHIPCAP. 18pF 500V CH CF316CH180J500AT K22271258 1- A G3 G 1212 CHIPCAP. 18pF 500V CH CF316CH180J500AT K22271258 1- A G3 G 1212 CHIPCAP. 22pF 500V CH GRM1882C1H270JA01D K22174221 1- A H4 C 1213 CHIPCAP. 22pF 500V CH GRM1882C1H270JA01D K22174221 1- A G3 C 1214 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174823 1- B b4 C 1215 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174823 1- B b4 C 1216 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174823 1- B b4 C 1216 CHIPCAP. 0.001uF 50V B GRM188B11H103KA01D K22174823 1- B b4 G 1216 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174823 1- B b4 G 1216 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B a3 G 1218 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B a3 G 1218 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 G 1220 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 G 1223 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 G 1223 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 G 1224 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 G 1223 CHIPCAP. 0.1uF 16V B GRM188B11H102KA01D K22174821 1- A G5 G 1223 CHIPCAP. 0.005suF 50V B GRM188B11H102KA01D K22174821 1- A G5 G 1223 CHIPCAP. 0.1uF 16V B GRM188B11H102KA01D K22174821 1- B 66 G 1223 CHIPCAP. 0.005suF 50V B GRM188B11H102KA01D K22174821 1- B 66 G 1223 CHIPCAP. 0.1uF 16V B GRM188B11H102KA01D					1						
C 1208 CHIPCAP.						1					
C 1209 CHIPCAP.						1					
C 1210 CHIPCAP. 18pF 500V CH CF316CH180J500AT K22271258 1- A G3 C 1211 CHIPCAP. 18pF 500V CH CF316CH180J500AT K22271258 1- A G3 C 1212 CHIPCAP. 27pF 50V CH GRM1882C1H270JA01D K22174221 1- A H4 C 1213 CHIPCAP. 22pF 500V CH CF316CH20J500AT K22271259 1- A G3 C 1214 CHIPCAP. 0.01uF 50V B GRM188B11H103KA01D K22174823 1- B b4 C 1215 CHIPCAP. 0.01uF 50V B GRM188B11H102KA01D K22174823 1- B b4 C 1216 CHIPCAP. 0.01uF 50V B GRM188B11H102KA01D K22174823 1- B a4 C 1217 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174823 1- B a3 C 1218 CHIPCAP. 33pF 50V CH GRM1882C1H30JA01D K2217423 1- B a3 C 1220 CHIPCAP. 8pF 50V CH GRM1882C1H30JA01D K2217423 1- A G5 C 1220 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K2217423 1- A G5 C 1220 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K2217423 1- A G5 C 1220 CHIPCAP. 0.001uF 50V B GRM1882C1H30JA01D K22174209 1- A G4 C 1221 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1220 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1223 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 0.0056uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1226 CHIPCAP. 0.0056uF 50V B GRM188B11H102KA01D K22174818 1- B C4 C 1227 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B C5 C 1231 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B C5 C 1233 CHIPCAP. 0.001uF 50V B GRM188B11C104KA01D K22174821 1- B C5 C 1233 CHIPCAP. 0.001uF 50V B GRM188B11C104KA01D K22174821 1- B C5 C 1232 CHIPCAP. 0.001uF 50V B GRM188B11C104KA01D K22174821 1- B C5 C 1233 CHIPCAP. 0.001uF 50V B GRM188B11C104KA01D K22174821 1- B C5 C 1233 CHIPCAP. 0.001uF 50V B GRM188B11C104KA01D K22174821 1- B A6 C 1233 CHIPCAP. 0.001uF 50V B GRM188B1H102KA01D K22174821 1-											
C 1211 CHIPCAP.					1				1 '		
C 1212 CHIPCAP. 27pF 50V CH GRM1882C1H270JA01D K22174221 1- A H3 C 1213 CHIPCAP. 22pF 500V CH CF316CH220J500AT K22271259 1- A G3 C 1214 CHIPCAP. 0.01uF 50V B GRM188B11H102KA01D K22174823 1- B b4 C 1215 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B b4 C 1216 CHIPCAP. 0.01uF 50V B GRM188B11H102KA01D K22174821 1- B a4 C 1217 CHIPCAP. 0.01uF 50V B GRM188B11H102KA01D K22174823 1- B a4 C 1218 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174823 1- B a4 C 1217 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174823 1- B a4 C 1218 CHIPCAP. 33pF 50V CH GRM1882C1H380JA01D K22174203 1- A G5 C 1220 CHIPCAP. 8pF 50V CH GRM1882C1H380JA01D K22174209 1- A G4 C 1221 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174209 1- A G5 C 1223 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K2217421 1- A G5 C 1224 CHIPCAP. 0.001uF 50V B GRM188B1H102KA01D K22174211 1- A G4 C 1225 CHIPCAP. 0.001uF 50V B GRM188B1H102KA01D K22174211 1- A G4 C 1225 CHIPCAP. 0.1uF 16V B GRM188B1H100JA01D K22174211 1- A G4 C 1226 CHIPCAP. 0.0056uF 50V B GRM188B11H102KA01D K22174211 1- A G4 C 1227 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174211 1- B C6 C 1228 CHIPCAP. 0.001uF 50V B GRM188B11H100JA01D K22174211 1- B C6 C 1228 CHIPCAP. 0.001uF 50V B GRM188B11H100JA01D K22174211 1- B C6 C 1223 CHIPCAP. 0.001uF 50V B GRM188B11H100JA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.01uF 16V B GRM188B11H102KA01D K22174821 1- B C5 C 1231 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B C5 C 1232 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1233 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1233 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1236 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.01uF 16V B GRM188B11C104KA01D K22174821 1- B C5 C 1230 CHIPCAP. 0.01uF 16V B GRM188B1C0000000000000000000000000											
C 1213 CHIPCAP.											
C 1214 CHIPCAP.		CHIP CAP.		500V		CF316CH220J500AT					
C 1216 CHIPCAP. 0.01uF 50V B GRM188B11H103KA01D K22174823 1- B a4 C 1217 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B a3 C 1218 CHIPCAP. 33pF 50V CH GRM1882C1H330JA01D K22174223 1- A G5 C 1220 CHIPCAP. 8pF 50V CH GRM1882C1H8R0DZ01D K22174209 1- A G4 C 1221 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1223 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 0.1uF 16V B GRM188B11H102KA01D K22174821 1- A G4 C 1226 CHIPCAP. 0.1uF 16V B GRM188B11H102KA01D K22174818 1- B c5 <t< td=""><td></td><td></td><td></td><td>50V</td><td>В</td><td>GRM188B11H103KA01D</td><td>K22174823</td><td></td><td></td><td></td><td></td></t<>				50V	В	GRM188B11H103KA01D	K22174823				
C 1217 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B a3 C 1218 CHIPCAP. 33pF 50V CH GRM1882C1H330JA01D K22174223 1- A G5 C 1220 CHIPCAP. 8pF 50V CH GRM188C1HBR0DZ01D K22174209 1- A G4 C 1221 CHIPCAP. 0.001uF 50V B GRM188B1HH102KA01D K22174821 1- A G5 C 1223 CHIPCAP. 0.001uF 50V B GRM188B1H1H102KA01D K22174821 1- A G5 C 1224 CHIPCAP. 10pF 50V CH GRM188B1H100JA01D K22174821 1- A G5 C 1225 CHIPCAP. 0.1uF 16V B GRM188B11H102KA01D K22174811 1- A G4 C 1226 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174818 1- B c5 <t< td=""><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
C 1218 CHIP CAP. 33pF 50V CH GRM1882C1H330JA01D K22174223 1- A G5 C 1220 CHIP CAP. 8pF 50V CH GRM1882C1H8R0DZ01D K22174209 1- A G4 C 1221 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- A G5 C 1223 CHIP CAP. 0.10pF 50V CH GRM1882C1H100JA01D K22174821 1- A G5 C 1224 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22174811 1- A G4 C 1225 CHIP CAP. 0.001uF 50V B GRM188B11C104KA01D K22174818 1- B c4 C 1227 CHIP CAP. 0.0056uF 50V B GRM188B11H102KA01D K22174818 1- B c5 C 1228 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B c5 C 1228 CHIP CAP. 0.1uF 16V B GRM188B11H102KA01D K22174821 1- B c5 C 1228 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B c5 C 1230 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B c5 C 1230 CHIP CAP. 0.1uF 16V B GRM188B2C1H5R0CZ01D K22174206 1- B b7 C 1231 CHIP TA.CAP. 10uF 10V TA.JA.106M010Y K7810072 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22174821 1- B a6 C 1233 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B a7 C 1233 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B b7 C 1236 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A G2 C 1237 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K2230208 1- A H3 C 1239 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K2230208 1- A H3						1					
C 1220 CHIP CAP.						1					
C 1221											
C 1223										1	
C 1224											
C 1225						1					
C 1226 CHIPCAP. 0.0056uF 50V B GRM188B11H562KA01D K22174818 1- B c4 C 1227 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B c5 C 1228 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B c5 C 1230 CHIPCAP. 5pF 50V CH GRM1882C1H5R0CZ01D K22174206 1- B b7 C 1231 CHIP CAP. 10uF 10V TAJA106M010Y K78100072 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a7 C 1233 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a7 C 1233 CHIP CAP. 0.001uF 50V B GRM188B11C104KA01D K22174821 1- B a7 C 1236<					1	1					
C 1227 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B c5 C 1228 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22174825 1- B c5 C 1230 CHIPCAP. 5pF 50V CH GRM1882C1H5R0CZ01D K22174206 1- B b7 C 1231 CHIP TA.CAP. 10uF 10V TAJA106M010Y K78100072 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a7 C 1233 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22124805 1- B a6 C 1233 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174805 1- B a7 C 1236 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H3 C 123						1					
C 1228 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B c5 C 1230 CHIPCAP. 5pF 50V CH GRM1882C1H5R0CZ01D K22174206 1- B b7 C 1231 CHIP TA.CAP. 10uF 10V TAJA106M010Y K78100072 1- B a6 C 1232 CHIP CAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a6 C 1233 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22124805 1- B b7 C 1236 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B b7 C 1236 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H3 C 1237 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H3 C 1240<		CHIP CAP.	0.001uF	50V		1			1-		
C 1230 CHIPCAP. 5pF 50V CH GRM1882C1H5R0CZ01D K22174206 1- B b7 C 1231 CHIPTA.CAP. 10uF 10V TAJA106M010Y K78100072 1- B a6 C 1232 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a7 C 1233 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B b7 C 1236 CHIPCAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A G2 C 1237 CHIPCAP. 33pF 500V CH CF316CH330J500AT K22230208 1- A H3 C 1240 CHIPCAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3		CHIP CAP.		16V	В	GRM188B11C104KA01D					с5
C 1232 CHIPCAP. 0.1uF 16V B GRM188B11C104KA01D K22124805 1- B a7 C 1233 CHIPCAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B b7 C 1236 CHIPCAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A G2 C 1237 CHIPCAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3 C 1239 CHIPCAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H2 C 1240 CHIPCAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3					CH	1					
C 1233 CHIP CAP. 0.001uF 50V B GRM188B11H102KA01D K22174821 1- B b7 C 1236 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A G2 C 1237 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3 C 1239 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H2 C 1240 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3						1					
C 1236 CHIPCAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A G2 C 1237 CHIPCAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3 C 1239 CHIPCAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H2 C 1240 CHIPCAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3						1					
C 1237 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3 C 1239 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H2 C 1240 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3						1					
C 1239 CHIP CAP. 33pF 500V CH CF316CH330J500AT K22271261 1- A H2 C 1240 CHIP CAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3						1					
C 1240 CHIPCAP. 1pF 200V CK GRM2194C2D1R0CY21D K22230208 1- A H3						1				1	
						1				1	
						1					
C 1243 CHIP CAP. 3pF 50V CJ GRM1883C1H3R0CZ01D K22174204 1- B a3											

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
C 1244	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	G4
C 1245	CHIP CAP.	10pF	50V	CH	GRM1882C1H100JA01D	K22174211		1-	A	G5
C 1248 C 1249	CHIP CAP. CHIP CAP.	39pF 2pF	50V 50V	CH CK	GRM1882C1H390JA01D GRM1884C1H2R0CZ01D	K22174225 K22174203		1-	A	H5 H5
C 1249	CHIP CAP.	22pF	50V	CH	GRM1882C1H220JA01D	K22174203 K22174219		1-	A	H5
C 1251	CHIP CAP.	1pF	50V	CK	GRM1884C1H1R0BZ01D	K22174267		1-	A	H4
C 1252	CHIP CAP.	39pF	50V	CH	GRM1882C1H390JA01D	K22174225		1-	Α	H5
C 1253	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	с4
C 1254	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	c4
C 1255	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		1-	В	c5
C 1256 C 1257	CHIP CAP. CHIP CAP.	0.001uF 0.01uF	50V 50V	B B	GRM188B11H102KA01D GRM188B11H103KA01D	K22174821 K22174823		1-	B B	c4 c5
C 1257	CHIP CAP.	0.01ul 0.0022uF	50V	В	GRM188B11H222KA01D	K22174823 K22174813		1-	В	c5
C 1259	CHIP CAP.	0.01uF	50V	В	GRM188B11H103KA01D	K22174823		i-	В	c5
C 1260	CHIP CAP.	1uF	6.3V	В	GRM188B10J105KA01D	K22084801		1-	В	b6
C 1261	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	В	b7
C 1262	CHIP CAP.	27pF	50V	CH	GRM1882C1H270JA01D	K22174221		1-	В	b6
C 1263	CHIP CAP.	0.001uF	50V	B	GRM188B11H102KA01D	K22174821		1-	В	b6
C 1264 C 1265	CHIP CAP. CHIP CAP.	12pF 0.001uF	500V 100V	CH CH	CF316CH120J500AT GRM31M2C2A102JZ01L	K22271256 K22201202		1-	A	H1 H1
C 1265	CHIPCAP.	100pF	50V	CH	GRM1882C1H101JA01D	K22201202 K22174235		1-	A	H5
C 1267	CHIP CAP.	4pF	50V	CH CH	GRM1882C1H4R0CZ01D	K22174205		1-	В	a3
C 1268	CHIP CAP.	0.5pF	50V	CK	GRM1884C1HR50BZ01D	K22174265		1-	A	H5
C 1270	CHIP TA.CAP.	10uF	10V		TAJA106M010Y	K78100072		1-	В	с4
C 1273	CHIP CAP.	1uF	6.3V	В	GRM188B10J105KA01D	K22084801		1-	В	a6
C 1274	CHIP CAP.	1uF	6.3V	В	GRM188B10J105KA01D	K22084801		1-	В	a6
C 1275 C 1276	CHIP CAP. CHIP CAP.	1uF 1uF	6.3V 6.3V	B B	GRM188B10J105KA01D GRM188B10J105KA01D	K22084801 K22084801		1-	A B	E7 g7
C 1270	CHIPCAP.	0.0022uF	50V	B	GRM188B11H222KA01D	K22064601 K22174813		1-	A	97 H5
C 1278	CHIP CAP.	0.0022ui	50V	В	GRM188B11H562KA01D	K22174818		1-	A	H6
C 1279	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	A	G5
C 1280	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805		1-	Α	G5
C 1281	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	G7
C 1282	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	A	D6
C 1283 CD1001	CHIP CAP. CERAMIC DISC	4.7uF	6.3V	В	JMK107BJ475MA-T JTBM450CX7	K22084803 H7901520		1-	A	F6 G7
CF1001	CERAMICFILTER				ALFYM450G=K	H3900534		1-	A	H6
CF1001	CERAMICFILTER				LTM450GW	H3900573		i-	A	H6
CF1002	CERAMICFILTER				LTM450FW	H3900572		1-	Α	H5
D 1001	DIODE				1SS400 TE61	G2070634		1-	В	g5
D 1002	DIODE				HVC350B-TRF-E	G2070596		1-	A	C6
D 1003 D 1004	SURGE ABSORBER DIODE				P6KA18A-E3	Q9000721		1-	A	B2 C6
D 1004	DIODE				HSC277TRF-E HSC277TRF-E	G2070584 G2070584		1-	A	C6
D 1006	DIODE				HVC350B-TRF-E	G2070596		i-	A	E6
D 1007	DIODE				HVC350B-TRF-E	G2070596		1-	Α	E6
D 1008	DIODE				DAN222 TL	G2070174		1-	В	с5
D 1009	DIODE				DA221 TL	G2070178		1-	В	e6
D 1010	DIODE				DAN235E TL	G2070612		1-	A	C4
D 1011 D 1012	DIODE DIODE				DA221 TL DAN222 TL	G2070178 G2070174		1-	A B	G5 a5
D 1012	DIODE				DA221 TL	G2070174 G2070178		1-	A	H5
D 1013	DIODE				DAN222 TL	G2070176 G2070174		1-	В	a6
D 1015	DIODE				EDZ TE-61 5.1B	G2070998		1-	В	b5
D 1016	DIODE				DA221 TL	G2070178		1-	Α	G6
D 1017	DIODE				HVC350B-TRF-E	G2070596		1-	A	G5
D 1018 D 1019	DIODE DIODE				L709CER L709CER	G2071124 G2071124		1-	A	G3 G3
D 1019 D 1020	DIODE				RLS135 TE-11	G2071124 G2070128		1-	A	H4
D 1020	DIODE				HVC350B-TRF-E	G2070128 G2070596		1-	A	G5
D 1022	DIODE				1SS321(TE85R.F)	G2070076		1-	В	a3
D 1023	DIODE				1SS400 TE61	G2070634		1-	Ā	G5
D 1024	DIODE				HVC350B-TRF-E	G2070596		1-	Α	H5
D 1025	DIODE				HVC350B-TRF-E	G2070596		1-	A	H5
D 1026	DIODE				1SS400 TE61	G2070634		1-	A	E7
D 1028 D 1029	DIODE DIODE				RLS135 TE-11 DAN222 TL	G2070128 G2070174		1-	A B	H4 b5
D 1029	DIODE				1SS400 TE61	G2070174 G2070634		1-	A	F6
D 1030	DIODE				DAN222 TL	G2070034 G2070174		1-	В	b5
FB1001	FERRITEBEADS				SMB304729	L9190094		1-	A	A1
FB1002	FERRITEBEADS				SMB304729	L9190094		1-	Α	B1
FB1003					SMB304729	L9190094		1-	Α	A2
FB1004	FERRITEBEADS				SMB304729	L9190094		1-	A	B1
FB1005	FERRITEBEADS				SMB304729	L9190094		1-	A	B3
FB1006	FERRITEBEADS		1		BK1608HS121-T	L9190081		1-	В	h1

MAIN Unit Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
FB1007	FERRITEBEADS				BK1608HS121-T	L9190081		1-	В	h1
J 1001	CONNECTOR				SC25-02WS	P0090621		1-	Α	А3
J 1002	CONNECTOR				HSJ0836-0105009	P1091085		1-	Α	A1
J 1003	CONNECTOR				32FLT-SM2-TB(LF)(SN)(M)	P1091258		1-	Α	F6
L 1002	CHIPCOIL	0.056uH			LQW2BHN56NG03L	L1690978		1-	Α	C6
L 1003	CHIPCOIL	0.018uH		2%	LQW18AN18NG00D	L1690883		1-	Α	C6
L 1004	M.RFC	0.1uH			TFL0816-100N	L1690981		1-	A	C5
L 1005	M.RFC	0.047uH			TFL0816-47	L1690499		1-	В	f4
L 1006	M.RFC	0.082uH			TFL0816-82N	L1690980		1-	A	C4
L 1007	M.RFC M.RFC	0.047uH			TFL0816-47	L1690499 L1690687		1- 1-	A	C3 G6
L 1008	M.RFC	1uH 1uH			LK1608 1R0K-T LK1608 1R0K-T	L1690687		1-	A	G6
L 1009	COIL	0.212uH			AS051047-212N	L0022834		1-	A	F4
L 1010	M.RFC	1uH			ELJ-ND1R0JF	L1690977		1-	A	F5
L 1012	CHIPCOIL	0.1uH		2%	LQW18ANR10G00D	L1690892		1-	A	F5
L 1013	COIL	0.033uH		-/-	AS1005-33NK	L0022546		1-	Α	G3
L 1014	COIL	0.047uH			AS0805-47NK	L0022539		1-	Α	H4
L 1015	CHIPCOIL	0.1uH		2%	LQW18ANR10G00D	L1690892		1-	Α	G5
L 1016	M.RFC	1uH			ELJ-ND1R0JF	L1690977		1-	Α	G4
L 1017	COIL	0.033uH			AS1005-33NK	L0022546		1-	Α	G3
L 1018	COIL	0.033uH			AS1005-33NK	L0022546		1-	Α	H2
L 1019	COIL	0.033uH			AS1005-33NK	L0022546		1-	Α	H2
L 1020	CHIPCOIL	0.1uH		2%	LQW18ANR10G00D	L1690892		1-	A	G5
L 1021	CHIPCOIL	0.022uH		2%	LQW18AN22NG00D	L1690884		1-	A	H5
L 1022	COIL	0.012uH		2%	AS080336-12N	L0022810		1-	A	H1
L 1024	CHIPCOIL TRANSISTOR	0.082uH		2%	LQW18AN82NG00D	L1690891 G3340818R		1-	A B	H4
Q 1001 Q 1003	TRANSISTOR				2SC4081 T106 R DTC144EETL	G3070075		1-	A	g5 C6
Q 1003	TRANSISTOR				DTC144EETL	G3070075		1-	A	D7
Q 1005	C				LM2902PWR	G1094009		1-	В	e6
Q 1006	iC				LM2904PWR	G1094010		i-	В	d5
Q 1007	TRANSISTOR				2SA1774 TL R	G3117748R		1-	Α	D6
Q 1008	FET				2SJ615-TD-E	G3706158		1-	Α	B4
Q 1009	TRANSISTOR				2SC5231C9-TL	G3352318I		1-	Α	C6
Q 1010	TRANSISTOR				2SC5374-TL	G3353748		1-	Α	C5
Q 1011	C				MB15A01PFV1-G-BND-EFE1	G1092545		1-	Α	D6
Q 1012	TRANSISTOR				2SC4081 T106 R	G3340818R		1-	В	d6
Q 1013	TRANSISTOR				DTC144EETL	G3070075		1-	В	d6
Q 1014	TRANSISTOR				DTC144EETL	G3070075		1- 1-	A	C4
Q 1015 Q 1016	IC IC				KIA7808API S-812C50AUA-C3E-T2G	G1093164 G1093652		1-	A B	A5 g4
Q 1017	TRANSISTOR				2SC5374-TL	G3353748		1-	A	C5
Q 1018	TRANSISTOR				DTC144EETL	G3070075		1-	В	d5
Q 1019	TRANSISTOR				DTC144EETL	G3070075		1-	В	d5
Q 1020	TRANSISTOR				DTC144EETL	G3070075		1-	В	d6
Q 1021	TRANSISTOR				2SC4081 T106 R	G3340818R		1-	В	f5
Q 1022	TRANSISTOR				DTC143ZE TL	G3070102		1-	В	f5
Q 1023	TRANSISTOR				2SC5374-TL	G3353748		1-	Α	C4
Q 1024	TRANSISTOR				2SA1774 TL R	G3117748R		1-	В	f4
Q 1025	TRANSISTOR				FMMTL718TA	G3070335		1-	В	f4
Q 1026	TRANSISTOR				2SC5226-5-TL	G3352268E		1-	A	C4
Q 1027 Q 1028	TRANSISTOR IC				2SA1774 TL R	G3117748R		1- 1-	B A	b6 G6
Q 1028 Q 1029	TRANSISTOR				NJM2591V-TE1 2SA1774 TL R	G1094024 G3117748R		1-	B	b5
Q 1029	IC				RA60H1317M1	G1094220		1-	A	C2
Q 1030	TRANSISTOR				DTC144EETL	G3070075		1-	В	b6
Q 1032	TRANSISTOR				2SC4400-4-TL	G3344008D		1-	A	G5
Q 1033	TRANSISTOR				2SC4081 T106 R	G3340818R		1-	A	G6
Q 1034	FET				2SJ364-P(TX)	G3703648P		1-	В	b4
Q 1035	IC				LA4425A` ´	G1092241		1-	Α	A6
Q 1036	FET				2SJ364-P(TX)	G3703648P		1-	В	b5
Q 1037	FET				3SK299-T1(U73)	G4802998		1-	A	F5
Q 1038	IC				LM2904PWR	G1094010		1-	В	b4
Q 1039	FET				2SJ347(TE85L.F)	G3703477		1-	В	c5
Q 1040	TRANSISTOR				DTC144EETL	G3070075		1-	В	c5
Q 1041 Q 1042	FET FET				2SJ364-P(TX) 2SJ364-P(TX)	G3703648P G3703648P		1- 1-	B B	c5 a7
Q 1042 Q 1043	IC				M62364FP 600D	G1093033		1-	В	g7
Q 1043	IC				LM2904PWR	G1093033		1-	В	c5
Q 1045	FET				3SK299-T1(U73)	G4802998		1-	A	G4
Q 1046	TRANSISTOR				2SC4081 T106 R	G3340818R		1-	В	b4
Q 1047	TRANSISTOR				2SC4081 T106 R	G3340818R		1-	В	c4
Q 1048	IC				CD4094BPWR	G1093866		1-	A	E7
Q 1049	IC				LM2902PWR	G1094009		1-	В	b7
Q 1050	IC	ĺ	1	1	LM2904PWR	G1094010		1-	В	h7

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
Q 1051	TRANSISTOR				2SC4617 TL R	G3346178R		1-	Α	G5
Q 1052 Q 1053	TRANSISTOR TRANSISTOR				DTC143EETL 2SC4617 TL R	G3070114 G3346178R		1-	A A	F6 F6
R 1001	CHIPRES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	В	g5
R 1002	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Ā	C6
R 1003	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	Α	C6
R 1004	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	A	C6
R 1005 R 1006	CHIPRES. CHIPRES.	12k 33	1/16W 1/16W	5% 5%	RMC1/16S 123JTH RMC1/16S 330JTH	J24189038 J24189007		1-	A A	C6 C6
R 1007	CHIPRES.	1.8k	1/16W	5%	RMC1/16S 182JTH	J24189028		1-	A	D7
R 1008	CHIPRES.	1.8k	1/16W	5%	RMC1/16S 182JTH	J24189028		1-	Α	D6
R 1010	CHIPRES.	1.5k	1/16W	5%	RMC1/16S 152JTH	J24189027		1-	Α	D6
R 1011 R 1012	CHIPRES. CHIPRES.	100k 22k	1/16W 1/16W	5% 5%	RMC1/16S 104JTH RMC1/16S 223JTH	J24189049 J24189041		1-	A A	D6 D6
R 1012	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	A	D6
R 1014	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	d5
R 1015	CHIPRES.	680	1/16W	5%	RMC1/16S 681JTH	J24189023		1-	В	d5
R 1016	CHIPRES.	560k	1/16W	5%	RMC1/16S 564JTH	J24189058		1-	В	d5
R 1017 R 1018	CHIPRES. CHIPRES.	15k 150k	1/16W 1/16W	5% 5%	RMC1/16S 153JTH RMC1/16S 154JTH	J24189039 J24189051		1-	B B	d5 d5
R 1019	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d5
R 1020	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	d6
R 1021	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d5
R 1022 R 1023	CHIPRES. CHIPRES.	10k 68k	1/16W 1/16W	5% 5%	RMC1/16S 103JTH RMC1/16S 683JTH	J24189037 J24189047		1-	B B	d5 e5
R 1023	CHIPRES.	18k	1/16W	5%	RMC1/16S 683JTH RMC1/16S 183JTH	J24189047 J24189040		1-	В	d5
R 1026	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d6
R 1027	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Α	B3
R 1028	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	C6
R 1029 R 1030	CHIPRES. CHIPRES.	100 220k	1/16W 1/16W	5% 5%	RMC1/16S 101JTH RMC1/16S 224JTH	J24189013 J24189053		1-	A A	C5 C5
R 1030	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021		1-	A	C5
R 1032	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Α	C6
R 1033	CHIPRES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	Α	C6
R 1034 R 1035	CHIPRES. CHIPRES.	680	1/16W 1/16W	5% 5%	RMC1/16S 681JTH	J24189023		1-	A	C6 C5
R 1035	CHIPRES.	1k 22k	1/16W	5%	RMC1/16S 102JTH RMC1/16S 223JTH	J24189025 J24189041		1-	A A	C5
R 1037	CHIPRES.	680	1/16W	5%	RMC1/16S 681JTH	J24189023		1-	A	D6
R 1038	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	Α	D6
R 1039	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	A	E6
R 1040 R 1041	CHIPRES. CHIPRES.	100 10k	1/16W 1/16W	5% 5%	RMC1/16S 101JTH RMC1/16S 103JTH	J24189013 J24189037		1-	A A	D6 D6
R 1041	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	D6
R 1043	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Α	D6
R 1044	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	d5
R 1045 R 1046	CHIPRES. CHIPRES.	10k 47k	1/16W 1/16W	5% 5%	RMC1/16S 103JTH RMC1/16S 473JTH	J24189037 J24189045		1-	B B	d5 d5
R 1040	CHIPRES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	В	e5
R 1048	CHIPRES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	В	e5
R 1049	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	e6
R 1050	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	C4
R 1051 R 1052	CHIPRES. CHIPRES.	100 470k	1/16W 1/16W	5% 5%	RMC1/16S 101JTH RMC1/16S 474JTH	J24189013 J24189057		1-	A A	C5 C5
R 1053	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	A	C4
R 1054	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	Α	C4
R 1055	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	A	C4
R 1056 R 1057	CHIPRES. CHIPRES.	22k 100k	1/16W 1/16W	5% 5%	RMC1/16S 223JTH RMC1/16S 104JTH	J24189041 J24189049		1-	A A	E6 E6
R 1057	CHIPRES.	100k	1/16W	5%	RMC1/16S 10431H	J24189049		1-	A	E7
R 1059	CHIPRES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	A	E7
R 1060	CHIPRES.	39k	1/16W	5%	RMC1/16S 393JTH	J24189044		1-	A	E6
R 1061 R 1062	CHIPRES. CHIPRES.	47k 220k	1/16W 1/16W	5% 5%	RMC1/16S 473JTH RMC1/16S 224JTH	J24189045 J24189053		1-	A A	E6 E6
R 1062	CHIPRES.	470k	1/16W	5%	RMC1/16S 224JTH RMC1/16S 474JTH	J24189053 J24189057		1-	A	E6
R 1064	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	A	E6
R 1065	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d5
R 1066	CHIPRES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	В	e6
R 1067 R 1068	CHIPRES. CHIPRES.	390k 100k	1/16W 1/16W	5% 5%	RMC1/16S 394JTH RMC1/16S 104JTH	J24189056 J24189049		1-	B B	e6 f5
R 1068	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049 J24189049		1-	А	C4
R 1070	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	f4
R 1071	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021		1-	Α	C4
R 1072	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	A	G5
R 1073 R 1075	CHIPRES. CHIPRES.	0 10k	1/16W 1/16W	5% 5%	RMC1/16S JPTH RMC1/16S 103JTH	J24189070 J24189037		1-	A B	E7 b5
1 10/5	OTHER INCO.	ION	17 10 00	J /0	1 1 100 1 100 100 111	027103037		1.17	ر ا	l DO

MAIN Unit Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R 1076	CHIPRES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	Α	G5
R 1077	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	Α	G5
R 1079	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	Α	G5
R 1081	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	Α	G5
R 1082	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	A	G6
R 1083	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	A	G5
R 1084 R 1085	CHIPRES.	47k	1/16W	5% 5%	RMC1/16S 473JTH	J24189045		1-	В	d6
R 1085	CHIPRES. CHIPRES.	47k 12k	1/16W 1/16W	5%	RMC1/16S 473JTH RMC1/16S 123JTH	J24189045 J24189038		1-	B B	c6 e6
R 1087	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d6
R 1088	CHIPRES.	10k	1/16W	5%	RMC1/16S 1/33TH	J24189037		1-	В	e5
R 1089	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	e6
R 1090	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	f4
R 1091	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	f4
R 1092	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	f4
R 1093	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	f4
R 1094	CHIPRES.	2.7k	1/16W	5%	RMC1/16S 272JTH	J24189030		1-	Α	C4
R 1095	CHIPRES.	330	1/16W	5%	RMC1/16S 331JTH	J24189019		1-	Α	C3
R 1096	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	Α	C4
R 1097	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021		1-	A	C4
R 1098	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	a6
R 1099	CHIPRES.	1.5k	1/16W	5% 5%	RMC1/16S 152JTH	J24189027		1-	A	C4
R 1100 R 1101	CHIPRES. CHIPRES.	10k 33	1/16W 1/16W	5%	RMC1/16S 103JTH RMC1/16S 330JTH	J24189037 J24189007		1-	B A	a6 C4
R 1101	CHIPRES.	220	1/16W	5%	RMC1/16S 221JTH	J24189017		1-	В	b5
R 1103	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	b6
R 1104	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	b6
R 1105	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b5
R 1106	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b5
R 1107	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	Α	H6
R 1108	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b5
R 1109	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	a6
R 1110	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Α	G6
R 1111	CHIPRES.	5.6k	1/16W	5%	RMC1/16S 562JTH	J24189034		1-	A	G6
R 1112	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	b6
R 1113	CHIPRES.	10k	1/16W 1/16W	5% 5%	RMC1/16S 103JTH	J24189037		1-	В	a4
R 1114 R 1115	CHIPRES. CHIPRES.	330 18	1/16W	5%	RMC1/16S 331JTH RMC1/16S 180JTH	J24189019 J24189004		1-	A A	C3 C3
R 1116	CHIPRES.	330	1/16W	5%	RMC1/16S 331JTH	J24189019		1-	A	C3
R 1117	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	Â	E3
R 1118	CHIPRES.	47	1/16W	5%	RMC1/16S 470JTH	J24189009		1-	В	b5
R 1119	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	Ā	G5
R 1120	CHIPRES.	220	1/16W	5%	RMC1/16S 221JTH	J24189017		1-	Α	G6
R 1121	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	Α	G5
R 1122	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	Α	G6
R 1123	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	b4
R 1124	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	b5
R 1125	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	b4
R 1126	CHIPRES.	1	1/10W	5%	RMC1/10T 1R0J	J24205010		1-	В	i3
R 1127 R 1128	CHIPRES. CHIPRES.	0.33	1/16W 1W	5% 10%	RMC1/16S 100JTH RMC1 R33KATE	J24189001 J24309001		1-	В	g6 B6
R 1120	CHIPRES.	10	1/16W	5%	RMC1/16S 100JTH	J24309001 J24189001		1-	A B	g6
R 1130	CHIPRES.	100	1/16W	5%	RMC1/16S 1003111	J24189013		1-	В	g0 d4
R 1131	CHIPRES.	100	1/16W	5%	RMC1/16S 1010111	J24189013		1-	В	c4
R 1133	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	c4
R 1134	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	c4
R 1135	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	c4
R 1136	CHIPRES.	1.5k	1/16W	5%	RMC1/16S 152JTH	J24189027		1-	Α	G5
R 1137	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	Α	F5
R 1138	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	Α	F5
R 1139	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	c5
R 1140	CHIPRES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	c5
R 1141	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	b5
R 1142	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	g6
R 1143	CHIPRES.	4.7k	1/16W	5% 5%	RMC1/16S 472JTH	J24189033		1-	В	b7
R 1144 R 1145	CHIPRES. CHIPRES.	330k 4.7k	1/16W 1/16W	5% 5%	RMC1/16S 334JTH RMC1/16S 472JTH	J24189055 J24189033		1-	B A	a7 G4
R 1145	CHIPRES.	4.7K 47	1/1600 1W	5%	RMC1/165 4/2JTH RMC1470JTE	J24189033 J24305470		1-	A	G4 G4
R 1140	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24303470 J24189053		1-	В	b4
R 1148	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b4
R 1149	CHIPRES.	100	1/16W	5%	RMC1/16S 1033111	J24189013		1-	A	F4
R 1150	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	A	F4
R 1152	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	Α	G5
R 1153	CHIPRES.	82	1/16W	5%	RMC1/16S 820JTH	J24189012		1-	Α	F5
R 1154	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	Α	F4

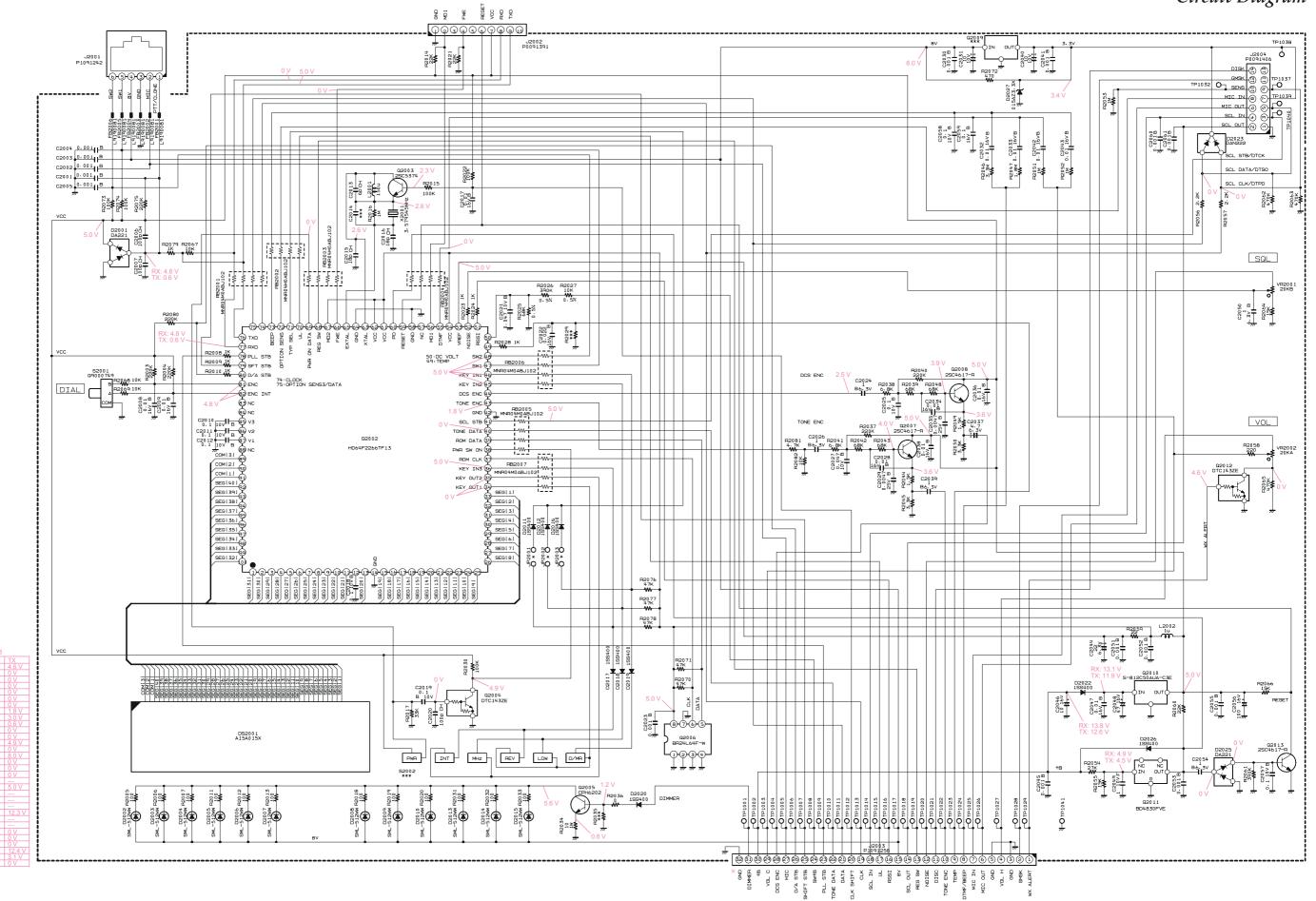
REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R 1156	CHIPRES.	39k	1/16W	5%	RMC1/16S 393JTH	J24189044		1-	Α	F5
R 1157	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	d5
R 1158	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	c5
R 1159	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	c5
R 1160	CHIPRES.	15k	1/16W	5%	RMC1/16S 153JTH	J24189039		1-	В	b7
R 1161 R 1162	CHIPRES. CHIPRES.	100k 2.2M	1/16W 1/16W	5% 5%	RMC1/16S 104JTH RMC1/16S 225JTH	J24189049 J24189065		1- 1-	B B	a7 b7
R 1163	CHIPRES.	10k	1/16W	5%	RMC1/16S 2253TH RMC1/16S 103JTH	J24189037		1-	В	b7
R 1164	CHIPRES.	10k	1/16W	1%	RMC1/163 1633111	J24183103		1-	В	b7
R 1165	CHIPRES.	100k	1/16W	1%	RMC1/16 104FTP	J24183104		1-	В	b7
R 1166	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	g7
R 1167	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	g7
R 1168	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	g7
R 1169	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b4
R 1170	CHIPRES.	15k	1/16W	5%	RMC1/16S 153JTH	J24189039		1-	В	a4
R 1171	CHIPRES.	100 220k	1/16W 1/16W	5%	RMC1/16S 101JTH	J24189013		1- 1-	A	G4
R 1172	CHIPRES. CHIPRES.	4.7k	1/16W	5% 5%	RMC1/16S 224JTH RMC1/16S 472JTH	J24189053 J24189033		1-	A A	G5 G4
R 1174	CHIPRES.	220	1/16W	5%	RMC1/16S 221JTH	J24189017		1-	A	G4
R 1175	CHIPRES.	330	1/16W	5%	RMC1/16S 331JTH	J24189019		1-	Â	G5
R 1177	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	A	G4
R 1178	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	A	G4
R 1179	CHIPRES.	680	1/16W	0.5%	MCR01MZPD6800	J24189360		1-	В	с5
R 1180	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	В	b4
R 1181	CHIPRES.	2.7k	1/16W	5%	RMC1/16S 272JTH	J24189030		1-	В	b4
R 1182	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	b5
R 1183	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	c4
R 1184 R 1185	CHIPRES. CHIPRES.	33k 33k	1/16W 1/16W	5% 0.5%	RMC1/16S 333JTH MCR01MZPD3302	J24189043 J24189380		1- 1-	B B	c4 c5
R 1186	CHIPRES.	33k	1/16W	0.5%	MCR01MZPD3302	J24189380		1-	В	c5
R 1187	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	c5
R 1188	CHIPRES.	100k	1/16W	0.5%	MCR01MZPD1003	J24189386		i-	В	c5
R 1189	CHIPRES.	47k	1/16W	0.5%	MCR01MZPD4702	J24189382		1-	В	c5
R 1190	CHIPRES.	470k	1/16W	0.5%	MCR01MZPD4703	J24189332		1-	В	c5
R 1191	CHIPRES.	2.2M	1/16W	5%	RMC1/16S 225JTH	J24189065		1-	В	b7
R 1192	CHIPRES.	68k	1/16W	1%	RMC1/16 683FTP	J24183683		1-	В	b7
R 1193	CHIPRES.	4.7k	1/16W	1%	RMC1/16 472FTP	J24183472		1-	В	b7
R 1194	CHIPRES.	4.7k	1/16W	1%	RMC1/16 472FTP	J24183472		1-	В	b7
R 1195 R 1196	CHIPRES. CHIPRES.	10k 68k	1/16W 1/16W	1% 5%	RMC1/16 103FTP RMC1/16S 683JTH	J24183103 J24189047		1- 1-	B B	a7 a7
R 1197	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	a7
R 1198	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	g7
R 1199	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	g7
R 1200	CHIPRES.	330k	1/16W	0.5%	MCR01MZPD3303	J24189330		1-	В	h7
R 1201	CHIPRES.	220k	1/16W	0.5%	MCR01MZPD2203	J24189389		1-	В	h7
R 1202	CHIPRES.	330k	1/16W	0.5%	MCR01MZPD3303	J24189330		1-	В	h7
R 1203	CHIPRES.	470k	1/16W	0.5%	MCR01MZPD4703	J24189332		1-	В	h7
R 1204	CHIPRES.	330k	1/16W	0.5%	MCR01MZPD3303	J24189330		1-	В	h7
R 1205	CHIPRES. CHIPRES.	56k 4.7k	1/16W 1/16W	0.5% 5%	MCR01MZPD5602 RMC1/16S 472JTH	J24189383 J24189033		1- 1-	B B	h7 a3
R 1208	CHIPRES.	0	1/16W	5%	RMC1/16SJPTH	J24189070		1-	A	43 4
R 1209	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	G5
R 1210	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	Α	H5
R 1211	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	Α	H5
R 1212	CHIPRES.	150k	1/16W	5%	RMC1/16S 154JTH	J24189051		1-	В	c4
R 1213	CHIPRES.	2.2M	1/16W	5%	RMC1/16S 225JTH	J24189065		1-	В	c4
R 1214	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	c4
R 1215	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	c4
R 1216 R 1217	CHIPRES. CHIPRES.	0 22k	1/16W 1/16W	5% 0.5%	RMC1/16S JPTH MCR01MZPD2202	J24189070 J24189378		1-	B B	c4 c5
R 1217	CHIPRES.	10k	1/16W	0.5%	MCR01MZPD2202 MCR01MZPD1002	J24189378 J24189374		1-	В	c5
R 1210	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	b6
R 1220	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	b6
R 1221	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	b7
R 1222	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b6
R 1223	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	b6
R 1224	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	В	b6
R 1225	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	A	E7
R 1226	CHIPRES.	5.6k	1/16W 1/16W	5%	RMC1/16S 562JTH	J24189034		1-	В	a3
R 1228 R 1229	CHIPRES. CHIPRES.	4.7k 330k	1/16W	5% 5%	RMC1/16S 472JTH RMC1/16S 334JTH	J24189033 J24189055		1- 1-	B B	b6 b6
R 1229	CHIPRES.	22k	1/16W	5%	RMC1/16S 334JTH RMC1/16S 223JTH	J24189041		1-	В	b6
R 1231	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	b6
R 1234	CHIPRES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	Ā	G5
R 1235	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Α	G5

MAIN Unit Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAY ADR
R 1236	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029	VLING.	1-	A	G5
	CHIPRES.	680	1/16W		RMC1/16S 22231H RMC1/16S 681JTH			1-		
R 1237				5%		J24189023			A	G6
R 1238 R 1239	CHIPRES. CHIPRES.	4.7k 2.2k	1/16W 1/16W	5% 5%	RMC1/16S 472JTH RMC1/16S 222JTH	J24189033 J24189029		1- 1-	B B	b7 b6
R 1239	CHIPRES.	10k	1/16W	5%	RMC1/16S 222JTH RMC1/16S 103JTH	J24189029 J24189037		1- 1-	В	a6
R 1240	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 103JTH RMC1/16S 472JTH	J24189037 J24189033		1- 1-	В	b7
R 1241	CHIPRES.	22k	1/16W	5%	RMC1/16S 47231H	J24189033		1-	А	E7
R 1242	CHIPRES.	22k 22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	A	E7
R 1243	CHIPRES.	150k	1/16W	5%	RMC1/16S 154JTH	J24189051		1-	В	c5
R 1245	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	c5
R 1246	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	A	D6
R 1247	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	В	b5
R 1248	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Ā	F6
R 1249	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	A	F6
R 1250	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	A	E6
TH1001	THERMISTOR			- ,,,	ERTJ1VV473J	G9090122		1-	Α	E7
TH1002	THERMISTOR				ERTJ1VV473J	G9090122		1-	Α	E3
X 1001	XTAL S-6	21.25MHz			21.250MHZ	H0103315		1-	Α	E6
XF1001	XTAL FILTER				21.700MHZ	H1102395		1-	Α	F5
XF1002	XTAL FILTER				21.700MHZ	H1102395		1-	Α	F5
	SHIELD CASE					RA0515300		1-		
	LEAF SPRING			<u></u> _		R0140031	W/ CE LABEL	1-		
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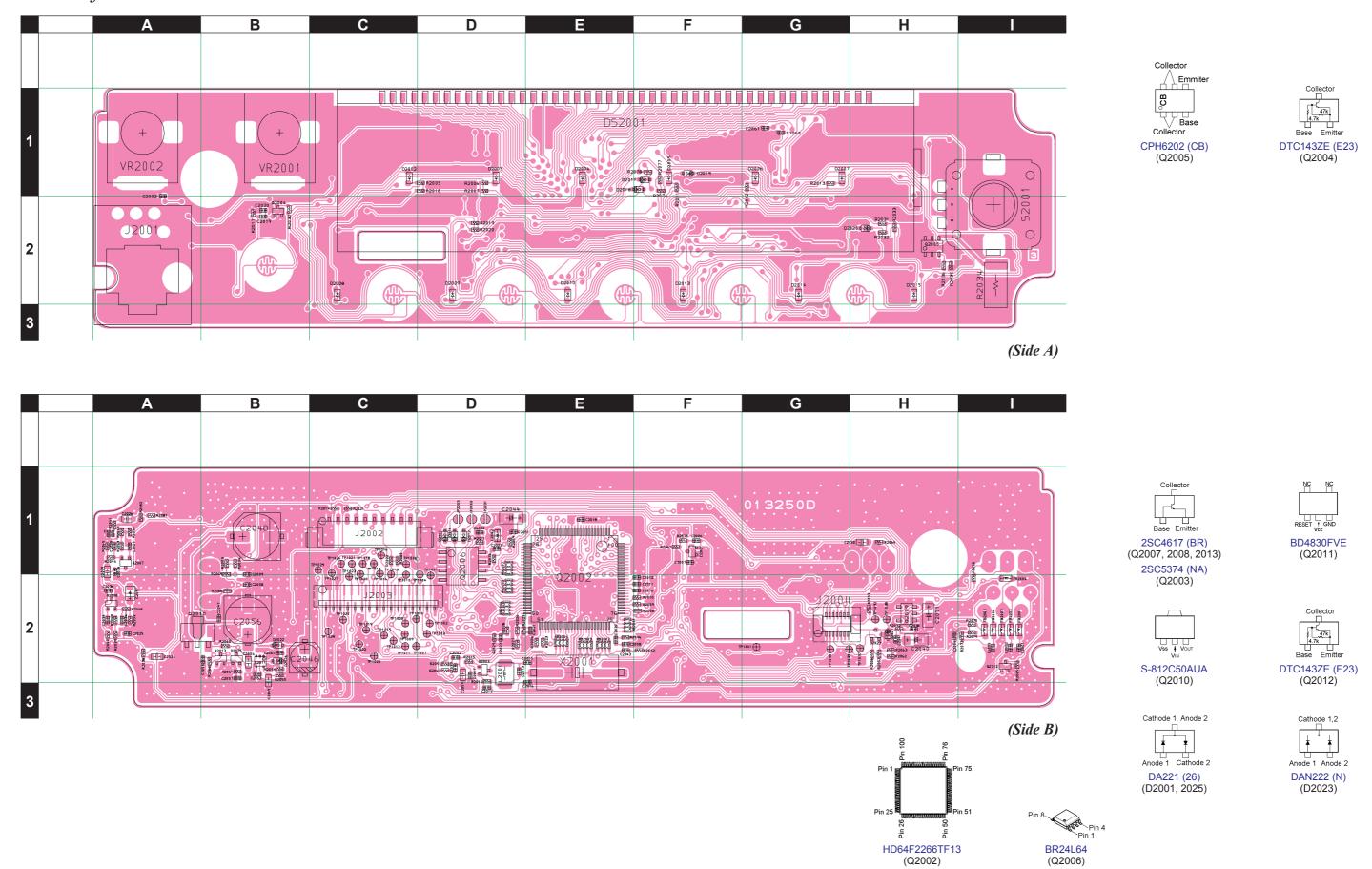
Note

Circuit Diagram



CNTL Unit

Parts Layout (Side A)



CNTL Unit Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N		SIDE LA	
	PCB with Components					CS2033409	CE:OFF, DST:US		
						CS2033410 CS2033411	CE:OFF, DST:EX		
						CS2033411	CE:OFF, DST:EX		
						CS2033415	CE:OFF, DST:EX		
	Printed Circuit Board					FR013250D	1-	I I	
C 2001	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	i2
C 2002	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	i2
C 2003	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	Α	Α1
C 2004	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	h2
C 2005	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	B	i2
C 2006 C 2007	CHIP CAP. CHIP CAP.	100pF 100pF	50V 50V	CH	GRM1552C1H101JD01D GRM1552C1H101JD01D	K22178236 K22178236	1-		f1 f1
C 2007	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22176230	1-	B	b2
C 2009	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		B	b1
C 2010	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802	1-	В	f2
C 2011	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802	1-	В	f2
C 2012	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802	1-		f2
C 2013	CHIP CAP.	6pF	50V	CH	GRM1552C1H6R0DZ01D	K22178208	1-	В	d2
C 2015	CHIP CAP.	18pF	50V	CH	GRM1552C1H180JZ01D	K22178218	1-	В	e2
C 2016	CHIP CAP.	18pF	50V	CH	GRM1552C1H180JZ01D	K22178218	1-	B	e2
C 2017 C 2018	CHIP CAP.	0.01uF 0.1uF	25V 10V	B B	GRM155B11E103KA01D GRM155B11A104KA01D	K22148834 K22108802	1-	B B	d2 e1
C 2018	CHIP CAP.	0.1uF 0.1uF	10V	В	GRM155B11A104KA01D	K22108802	1-	A	B2
C 2019	CHIP CAP.	100pF	50V	CH	GRM1552C1H101JD01D	K22178236	1-	A	B2
C 2021	CHIP CAP.	0.047uF	10V	В	GRM155B11A473KA01D	K22108801	1-	B	e2
C 2022	CHIP CAP.	0.022uF	16V	В	GRM155B11C223KA01D	K22128806	1-	B	d2
C 2023	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	d1
C 2024	CHIP CAP.	4.7uF	6.3V	В	JMK107BJ475MA-T	K22084803	1-	В	a2
C 2025	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802	1-	В	a2
C 2026	CHIP CAP.	1uF	6.3V	В	GRM188B10J105KA01D	K22084801	1-	B	a1
C 2027 C 2028	CHIP CAP. CHIP CAP.	0.047uF 0.01uF	10V 25V	B B	GRM155B11A473KA01D GRM155B11E103KA01D	K22108801 K22148834	1-	B B	a1 a1
C 2028	CHIP CAP.	0.0047uF	50V	В	GRM155B11H472KA01D	K22178838	1-	B	a1
C 2030	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	B	h2
C 2031	CHIP TA.CAP.	10uF	10V	-	TAJA106M010Y	K78100072	1-	B	h2
C 2032	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834	1-	В	e2
C 2033	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834	1-	В	d2
C 2034	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834	1-	В	a2
C 2035	CHIP CAP.	0.022uF	16V	В	GRM155B11C223KA01D	K22128806	1-	В	a2
C 2036	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834	1-	B	a2
C 2037 C 2038	CHIP TA.CAP.	4.7uF 0.01uF	6.3V 25V	В	TEESVP0J475M8R GRM155B11E103KA01D	K78080053 K22148834	1-	B B	a2 a1
C 2039	CHIP CAP.	1uF	6.3V	В	GRM188B10J105KA01D	K22084801	1-	B	a1
C 2040	CHIP TA.CAP.	10uF	10V	"	TAJA106M010Y	K78100072	1 1-	B	h2
C 2041	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1 1-	B	h2
C 2042	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834	1-	В	d2
C 2043	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834	1-	В	e2
C 2044	CHIP TA.CAP.	22uF	6.3V	_	TAJA226M006Y	K78080086	1-	В	d1
C 2045	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	b2
C 2046	AL.ELECTRO.CAP.	10uF	16V	l D	UZS1C100MCL1GB	K48120030	1-	B	b2 b2
C 2047 C 2048	CHIP CAP. AL.ELECTRO.CAP.	0.01uF 47uF	25V 16V	В	GRM155B11E103KA01D UZS1C470MCL1GB	K22148834 K48120031	1-	B B	b2 b1
C 2049	CHIP CAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001	1-	B	b2
C 2050	CHIP CAP.	0.47uF	10V	BJ	LMK107BJ474KA-T	K22104803	1-	B	h1
C 2051	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	d1
C 2052	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	d1
C 2053	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	b2
C 2054	CHIPCAP.	1uF	6.3V	В	GRM188B10J105KA01D	K22084801	1-	В	b2
C 2055	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	В	b2
C 2056	AL.ELECTRO.CAP.	100uF 0.1uF	16V	l D	UWX1C101MCL1GB	K48120032	1-	B	b2 b2
C 2057 C 2058	CHIP CAP.	0.1uF 0.1uF	10V 10V	B B	GRM155B11A104KA01D GRM155B11A104KA01D	K22108802 K22108802	1-	B B	e2
C 2056	CHIP CAP.	0.1uF	16V	В	GRM188B11C104KA01D	K22124805	1-	B	d2
C 2060	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	A	G1
C 2061	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	1-	A	G1
C 2062	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803	1-		
D 2001	DIODE				DA221 TL	G2070178	1-		f1
D 2002	LED				SML-512WWT86	G2071104	1-	A	C1
D 2003	LED				SML-512WWT86	G2071104	1-	A	D1
D 2004 D 2005	LED LED				SML-512WWT86 SML-512WWT86	G2071104 G2071104	1-	AA	E1 F1
D 2005 D 2006	LED				SML-512WWT86	G2071104 G2071104	1-	A	G1
D 2007	LED				SML-512WWT86	G2071104	1-	A	G1
					, - 				

CNTL Unit

D 2009	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	A A B B A A A A B B B B B B B B B B B B	D2 E2 d1 d1 F2 G2 H2 d1 F1 F1 H2 b2 h2 b2 b2 h2
D 2011	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	B B A A A A B B B B B B A	d1 d1 F2 G2 H2 d1 F1 F1 H2 b2 b2 b2 b2
D 2012	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	B A A A B B B B B B A	d1 F2 G2 H2 d1 F1 F1 H2 b2 h2 b2 h2
D 2013	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A B B B B B B A	F2 G2 H2 d1 F1 F1 H2 b2 h2 b2 b2
D 2014	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A B B B B B A	G2 H2 d1 F1 F1 F1 H2 b2 h2 b2 b2
D 2015 LED SML-512WWT86 G2071104 D 2016 DIODE 1SS400 TE61 G2070634 D 2017 DIODE 1SS400 TE61 G2070634 D 2018 DIODE 1SS400 TE61 G2070634 D 2019 DIODE 1SS400 TE61 G2070634 D 2020 DIODE 1SS400 TE61 G2070634 D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070634 D 2025 DIODE DAN222 TL G2070174 D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 1SS400 TE61 G2070178 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 D S2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T <td>1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-</td> <td>A B A A A B B B B B</td> <td>H2 d1 F1 F1 F1 H2 b2 h2 b2 b2 b2</td>	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A B A A A B B B B B	H2 d1 F1 F1 F1 H2 b2 h2 b2 b2 b2
D 2016 DIODE 1SS400 TE61 G2070634 D 2017 DIODE 1SS400 TE61 G2070634 D 2018 DIODE 1SS400 TE61 G2070634 D 2019 DIODE 1SS400 TE61 G2070634 D 2020 DIODE 1SS400 TE61 G2070634 D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070174 D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015A23.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	B A A A B B B B	d1 F1 F1 F1 H2 b2 h2 b2 b2 b2
D 2017 DIODE 1SS400 TE61 G2070634 D 2018 DIODE 1SS400 TE61 G2070634 D 2019 DIODE 1SS400 TE61 G2070634 D 2020 DIODE 1SS400 TE61 G2070634 D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070174 D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A B B B B	F1 F1 F1 H2 b2 h2 b2 b2 h2
D 2018 DIODE 1SS400 TE61 G2070634 D 2019 DIODE 1SS400 TE61 G2070634 D 2020 DIODE 1SS400 TE61 G2070634 D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070174 D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A B B B B	F1 F1 H2 b2 h2 b2 b2 h2
D 2019 DIODE 1SS400 TE61 G2070634 D 2020 DIODE 1SS400 TE61 G2070634 D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070174 D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 D S2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A B B B B	F1 H2 b2 h2 b2 b2 b2
D 2020 DIODE 1SS400 TE61 G2070634 D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070174 D 2025 DIODE DAS21 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A B B B B	H2 b2 h2 b2 b2 h2
D 2022 DIODE 1SS400 TE61 G2070634 D 2023 DIODE DAN222 TL G2070174 D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1- 1-	B B B B	b2 h2 b2 b2 h2
D 2025 DIODE DA221 TL G2070178 D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1- 1-	B B B	b2 b2 h2
D 2026 DIODE 1SS400 TE61 G2070634 D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1- 1-	B B A	b2 h2
D 2027 DIODE 015AZ3.3X-TPH3 G2071078 DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1- 1-	B A	h2
DS2001 LCD AH023N A15A015X G6090169 FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1- 1-	Α	
FB2001 FERRITEBEADS BK1608HS121-T L9190081 FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1- 1-		E1
FB2002 FERRITEBEADS BK1608HS121-T L9190081 FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1- 1-	B	
FB2003 FERRITEBEADS BK1608HS121-T L9190081 FB2004 FERRITEBEADS BK1608HS121-T L9190081	1-	I _	i2
FB2004 FERRITEBEADS		В	i2
	1-	В	i2
TENZINET LEGGLE DEALIS I I BATANXH NOTAL I I UTUNINY I	1-	В	i2 i2
FB2006 FERRITEBEADS BK1608HS121-T L9190081	1-	B B	i2
J 2001 CONNECTOR MJD0606KX06L P1091242	1-	A	A2
J 2002 CONNECTOR 53398-1071 P0091391	1-	B	c1
J 2003 CONNECTOR 32FLT-SM2-TB(LF)(SN)(M) P1091258	1-	В	c2
J 2004 CONNECTOR AXK6F14345YJ P0091406	1-	В	g2
L 2001 M.RFC 150uH FLC32T-151J L1690229	1-	В	d2
L 2002 M.RFC 1uH LK1608 1R0K-T L1690687	1-	В	d1
Q 2002 C HD64F2266TF13V X	1-	В	e2
Q 2003 TRANSISTOR 2SC5374-TL G3353748	1-	В	d2
Q 2004 TRANSISTOR DTC143ZETL G3070102	1-	Α	B2
Q 2005 TRANSISTOR CPH6202-TL G3070265	1-	A	H2
Q 2006 C BR24L64F-WE2 G1093876	1-	В	d1
Q 2007 TRANSISTOR 2SC4617 TL R G3346178R Q 2008 TRANSISTOR 2SC4617 TL R G3346178R	1-	B B	a1
Q 2008 TRANSISTOR 2SC4617 TL R G3346178R Q 2010 IC S-812C50AUA-C3E-T2G G1093652	1-	B	a2 a2
Q 2010 C	1-	В	b2
Q 2012 TRANSISTOR DTC143ZETL G3070102	1-	В	i2
Q 2013 TRANSISTOR 2SC4617 TL R G3346178R	1-	В	b2
R 2003 CHIPRES. 220k 1/16W 5% RMC1/16S 224JTH J24189053	1-	В	b1
R 2004 CHIPRES. 220k 1/16W 5% RMC1/16S 224JTH J24189053	1-	В	b1
R 2005 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	Α	D1
R 2006 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	Α	D1
R 2007 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	Α	D1
R 2008 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025	1-	В	f2
R 2009 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025	1-	В	f2
R 2010 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025	1-	B	f2
R 2011 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013 R 2012 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	A	F1 G1
R 2012 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013 R 2013 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1- 1-	A	G1
R 2014 CHIPRES. 100 1/16W 5% RMC1/16S 1013TH J24169013 1/16W 5% RMC1/16S 223JTH J24189041	1-	B	c1
R 2015 CHIPRES. 122k 1/10W 5% RMC1/16S 2233111 J24189049	1-	В	d2
R 2016 CHIPRES. 100k 1/10W 5% RMC1/16S 1043111 J24189061	1-	B	d2
R 2017 CHIPRES. 33k 1/16W 5% RMC1/16S 333JTH J24189043	1-	A	B2
R 2018 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	A	D1
R 2019 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	A	D2
R 2020 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	Α	D2
R 2021 CHIPRES. 22k 1/16W 5% RMC1/16S 223JTH J24189041	1-	В	c1
R 2022 CHIPRES. 100k 1/16W 5% RMC1/16S 104JTH J24189049	1-	В	c1
R 2023 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025	1-	В	e2
R 2024 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025	1-	В	e2
R 2025 CHIPRES. 68k 1/16W 0.5% MCR01MZPD6802 J24189384	1-	В	d2
R 2026 CHIPRES. 390k 1/16W 0.5% MCR01MZPD3903 J24189331 1/16W 0.5% MCR01MZPD3903 J24189331	1-	В	d2
R 2027 CHIPRES. 10k 1/16W 0.5% MCR01MZPD1002 J24189374 R 2028 CHIPRES. 11k 1/16W 5% RMC1/16S 102JTH J24189025	1-	В	d2
R 2028 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025 R 2030 CHIPRES. 100k 1/16W 5% RMC1/16S 104JTH J24189049	1- 1-	B A	d2 B2
R 2030 CHIPRES. 100k 1/16W 5% RMC1/16S 104JTH J24189049	1-	A	H2
R 2032 CHIPRES. 100 1/16W 5% RMC1/16S 1013TH J24189013	1-	A	H2
R 2033 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013	1-	A	H2
R 2034 CHIPRES. 10 1W 5% RMC1 100JTE J24305100	1-	A	12
R 2036 CHIPRES. 0 1/16W 5% RMC1/16SJPTH J24189070	1-	A	H2
R 2037 CHIPRES. 220k 1/16W 5% RMC1/16S 224JTH J24189053	1-	В	a1
R 2038 CHIPRES. 6.8k 1/16W 5% RMC1/16S 682JTH J24189035	1-	В	a2

CNTL Unit Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT		LAY ADR
R 2039	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	a2
R 2039	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189057		1-	В	a2 a2
R 2041	CHIPRES.	6.8k	1/16W	5%	RMC1/16S 682JTH	J24189035		1-	В	a1
R 2042	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	a1
R 2043	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	a1
R 2044	CHIPRES.	1.5k	1/16W	5%	RMC1/16S 152JTH	J24189027		1-	В	a1
R 2045	CHIPRES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	В	a1
R 2046	CHIPRES.	3.3M	1/16W	5%	RMC1/16S 335JTH	J24189324		1-	В	e2
R 2047	CHIPRES.	1.8M	1/16W	5%	RMC1/16S 185JTH	J24189064		1-	В	d2
R 2048	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	a2
R 2049	CHIPRES.	1.5k	1/16W	5%	RMC1/16S 152JTH	J24189027		1-	В	a2
R 2050 R 2051	CHIPRES. CHIPRES.	3.3k 1M	1/16W 1/16W	5% 5%	RMC1/16S 332JTH RMC1/16S 105JTH	J24189031 J24189061		1- 1-	B B	a2 d2
R 2052	CHIPRES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	В	f2
R 2053	CHIPRES.	1M	1/16W	5%	RMC1/16S 1055TH	J24189061		1-	В	h2
R 2054	CHIPRES.	27k	1/16W	5%	RMC1/16S 273JTH	J24189042		1-	В	b2
R 2055	CHIPRES.	15k	1/16W	5%	RMC1/16S 153JTH	J24189039		1-	В	b2
R 2056	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	h2
R 2057	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	h2
R 2058	CHIPRES.	220	1/16W	5%	RMC1/16S 221JTH	J24189017		1-	В	i2
R 2059	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	В	d1
R 2060	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	b2
R 2061	CHIPRES.	390k	1/16W	5%	RMC1/16S 394JTH	J24189056		1-	В	b2
R 2062	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	В	h2
R 2063 R 2064	CHIPRES. CHIPRES.	470k 15k	1/16W 1/16W	5% 5%	RMC1/16S 474JTH RMC1/16S 153JTH	J24189057 J24189039		1- 1-	B B	h2 h1
R 2064	CHIPRES.	470k	1/16W	5%	RMC1/16S 1533TH	J24189059 J24189057		1-	В	i2
R 2065	CHIPRES.	15k	1/16W	5%	RMC1/16S 4743TH	J24189037		1-	В	b2
R 2067	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	f1
R 2068	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b2
R 2069	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b1
R 2070	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d1
R 2071	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d1
R 2072	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021		1-	В	h2
R 2073	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	i2
R 2074	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	i2
R 2075	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	i2
R 2076 R 2077	CHIPRES. CHIPRES.	47k 47k	1/16W 1/16W	5% 5%	RMC1/16S 473JTH RMC1/16S 473JTH	J24189045 J24189045		1-	A A	F1 F1
R 2078	CHIPRES.	47k 47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	F1
R 2079	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	f1
R 2080	CHIPRES.	220k	1/16W	5%	RMC1/16S 224JTH	J24189053		1-	В	c1
R 2081	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	a1
R 2082	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	a1
RB2001	BLOCK RES.				MNR04M0ABJ102	J42900039		1-	В	e2
RB2002	BLOCK RES.				MNR04M0ABJ102	J42900039		1-	В	e2
RB2003	BLOCK RES.				MNR04M0ABJ102	J42900039		1-	В	e2
RB2004					MNR04M0ABJ102	J42900039		1-	В	e2
RB2005					MNR04M0ABJ102	J42900039		1-	В	d2
RB2006 RB2007					MNR04M0ABJ102 MNR04M0ABJ102	J42900039 J42900039		1-	B B	d2 d1
S 2001	ROTARY ENCODER				EC12E2420401	Q9000749		1-	A	12
VR2001					WH9011-1B B20K 25/5	J60800288		1-	A	B1
VR2002					WH9011-1B A20K 25/5	J60800287		1-	A	A1
X 2001	XTAL U3B	3.579545MH	z		3.579545MHZ	H0103304		1-	В	e2
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CNTL Unit Note



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