

Technical Supplement

Automatic Antenna Tuner

FC-50

EBA53X90A ©2017 YAESU MUSEN CO., LTD.

Introduction

This manual provides the technical information necessary for servicing the FC-50 Automatic Antenna Tuner.

Servicing this equipment requires expertise in handing 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 provided for each double-sided board in this transceiver. Each side of the board is referred to by the type of the majority of components installed on that side ("Side A" or "Side B"). 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 information in this manual to be correct, YAESU 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.

Contents -

Specifications
Exploded View & Miscellaneous Parts
Block Diagram
Connection Diagram
Board Unit (Schematics, Layouts & Parts)
CNTL Unit
CAPACITOR Unit
COIL Unit

Important Note

This antenna tuner 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.

Specifications

Frequency Range: 1.8 MHz - 29.7 MHz, 50 MHz - 54 MHz

 $\begin{tabular}{ll} \textbf{Input Impedance:} & 50 \ \Omega \\ \textbf{Maximum Power:} & 100 \ \text{Watts} \\ \textbf{Tune-up Power:} & 4 \ \text{W} - 60 \ \text{W} \\ \end{tabular}$

Tune-up Time: 5 seconds or less

Impedance Matching Range: $1.8 - 29.7 \text{ MHz} = 16 \Omega - 150 \Omega$

 $50 - 54 \text{ MHz} = 25 \Omega - 100 \Omega$

Impedance Matching Memories: 100 channels

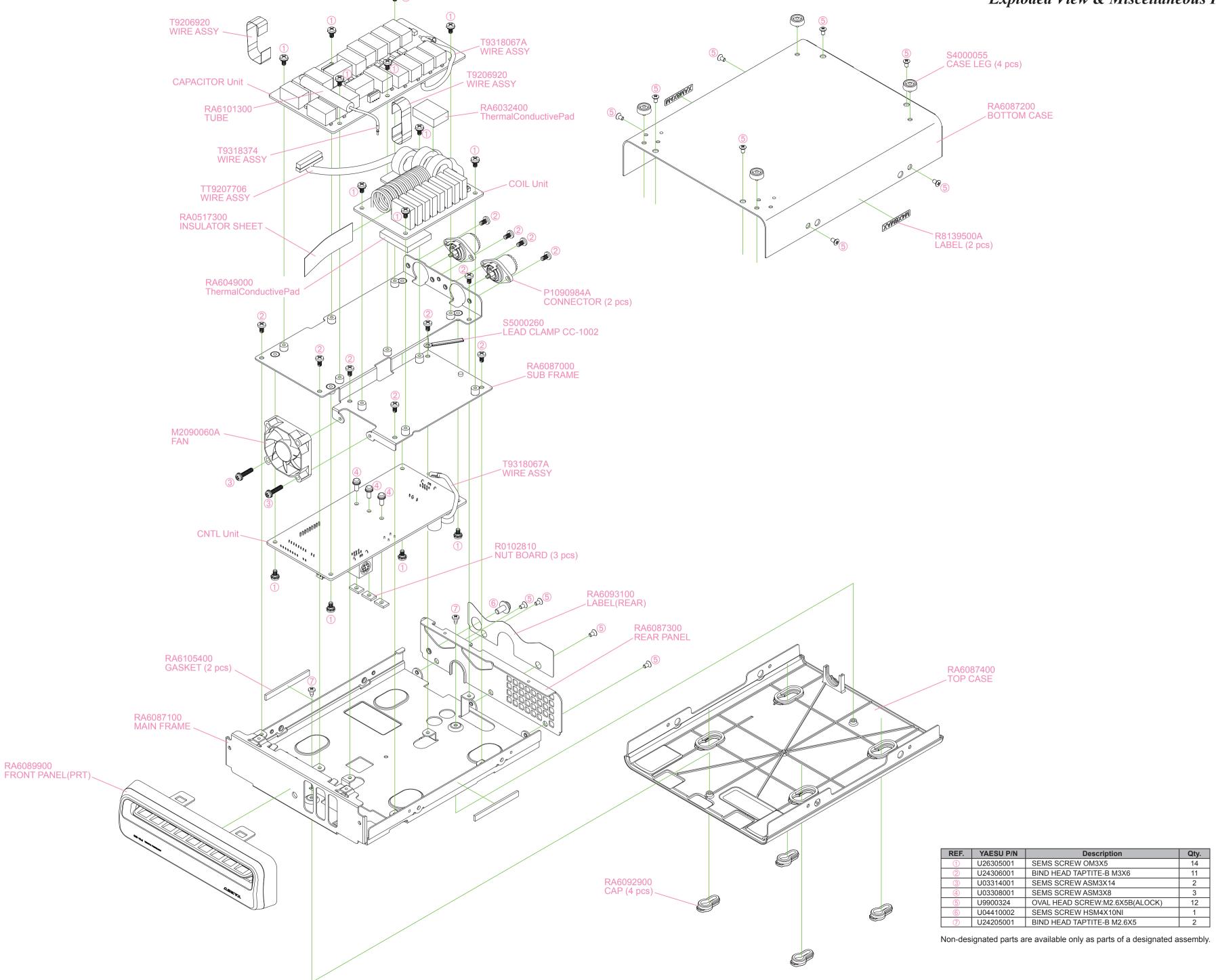
Input Voltage Requirement: 13.8 V ±15% (supplied from transceiver)

Operating Temperature Range: 14 °F to +122 °F (-10 °C to +50 °C)

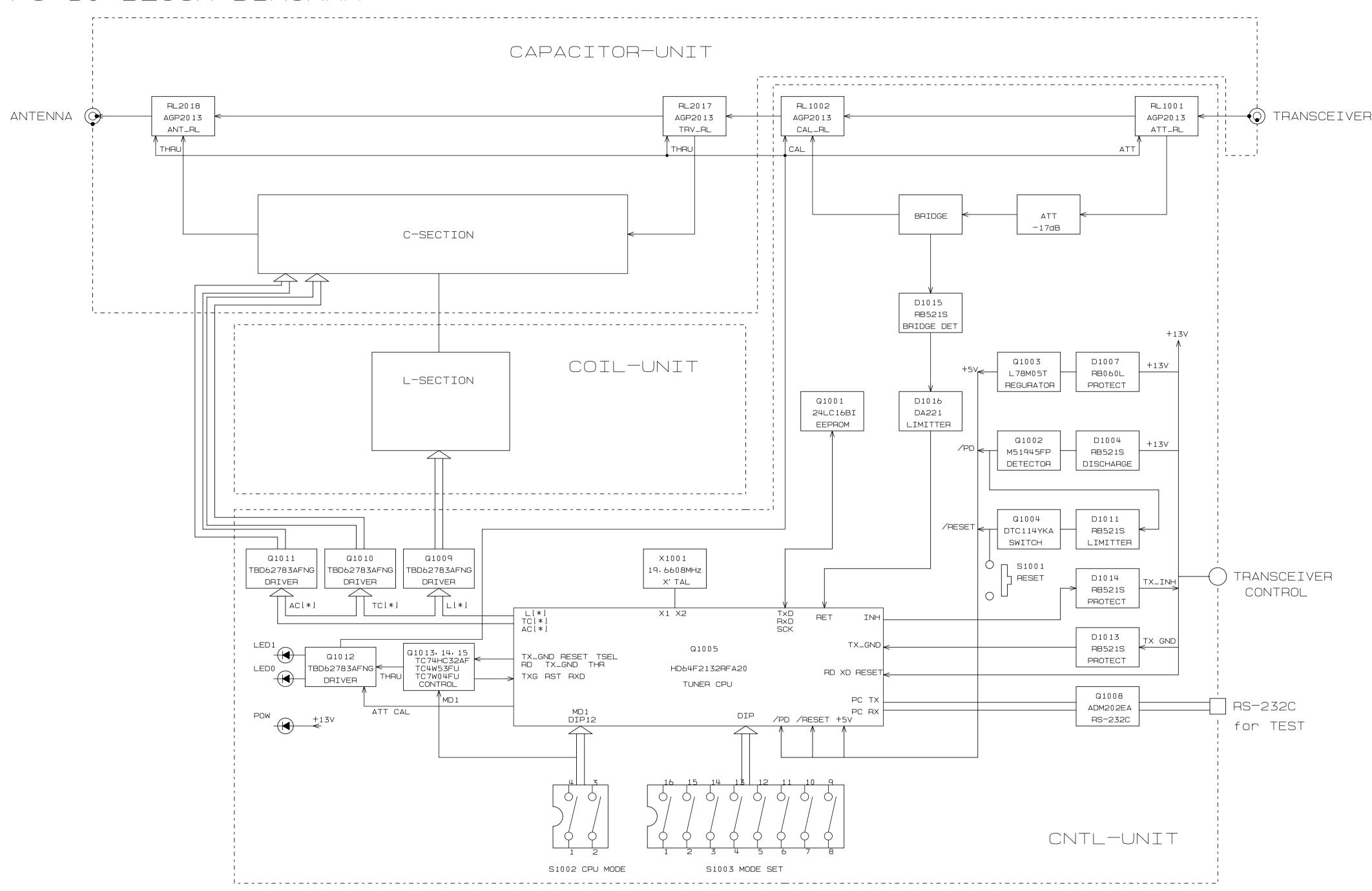
Case Size (W x H x D): 6.1" x 1.8" x 8.3" (155 x 45 x 210.5 mm)

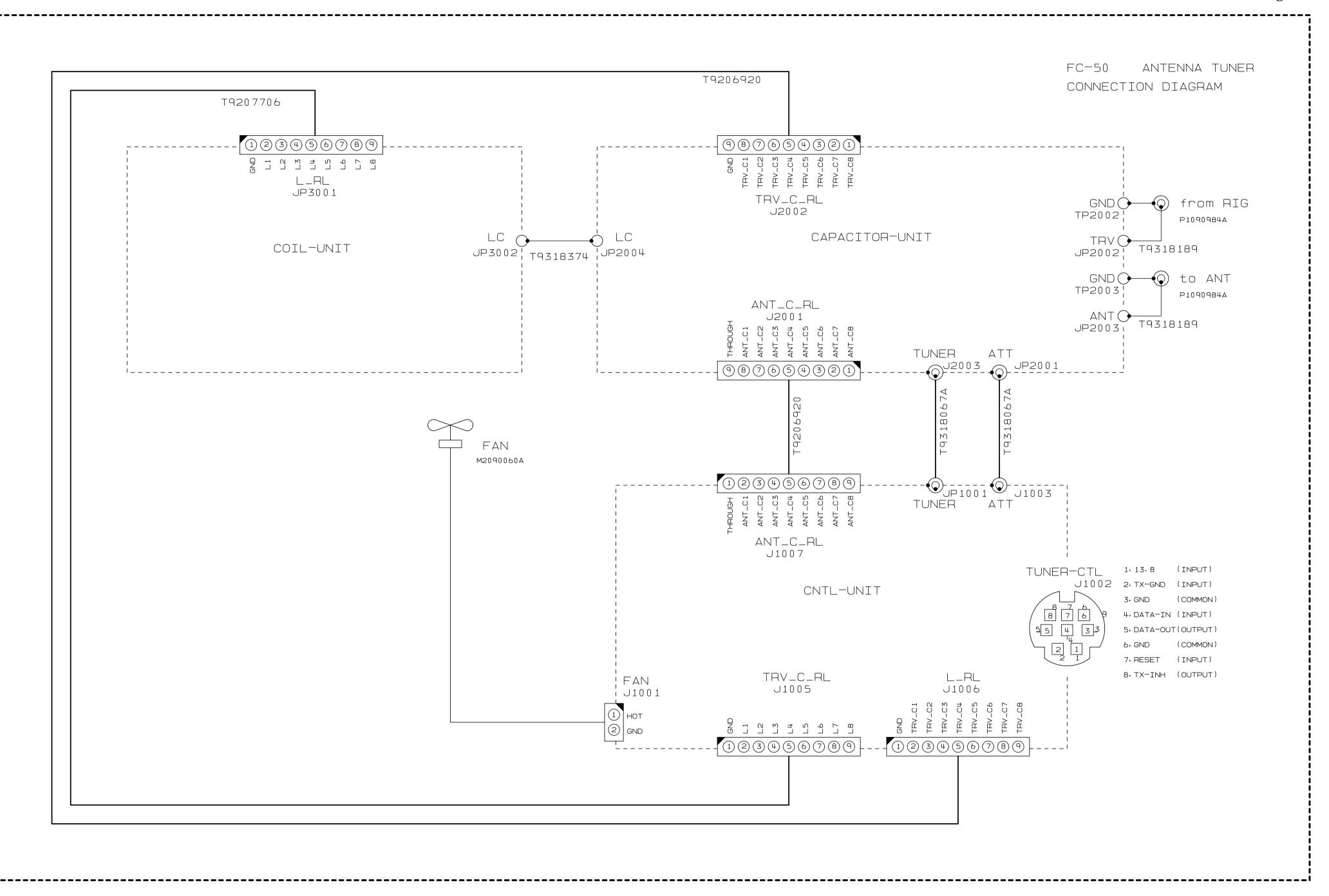
Weight (Approx.): 3 lbs (1.35 kg)

Specifications subject to change without notice or obligation.

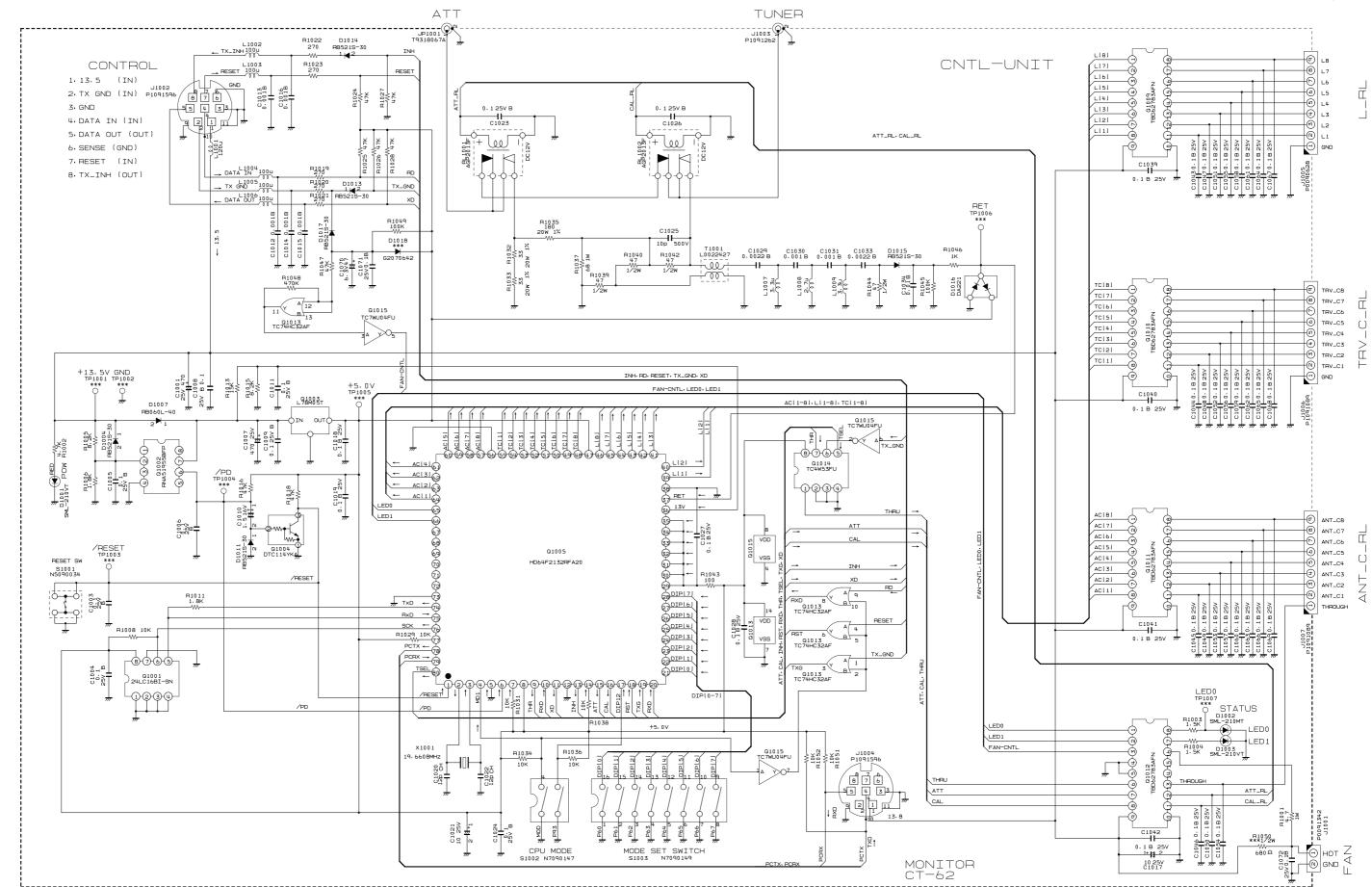


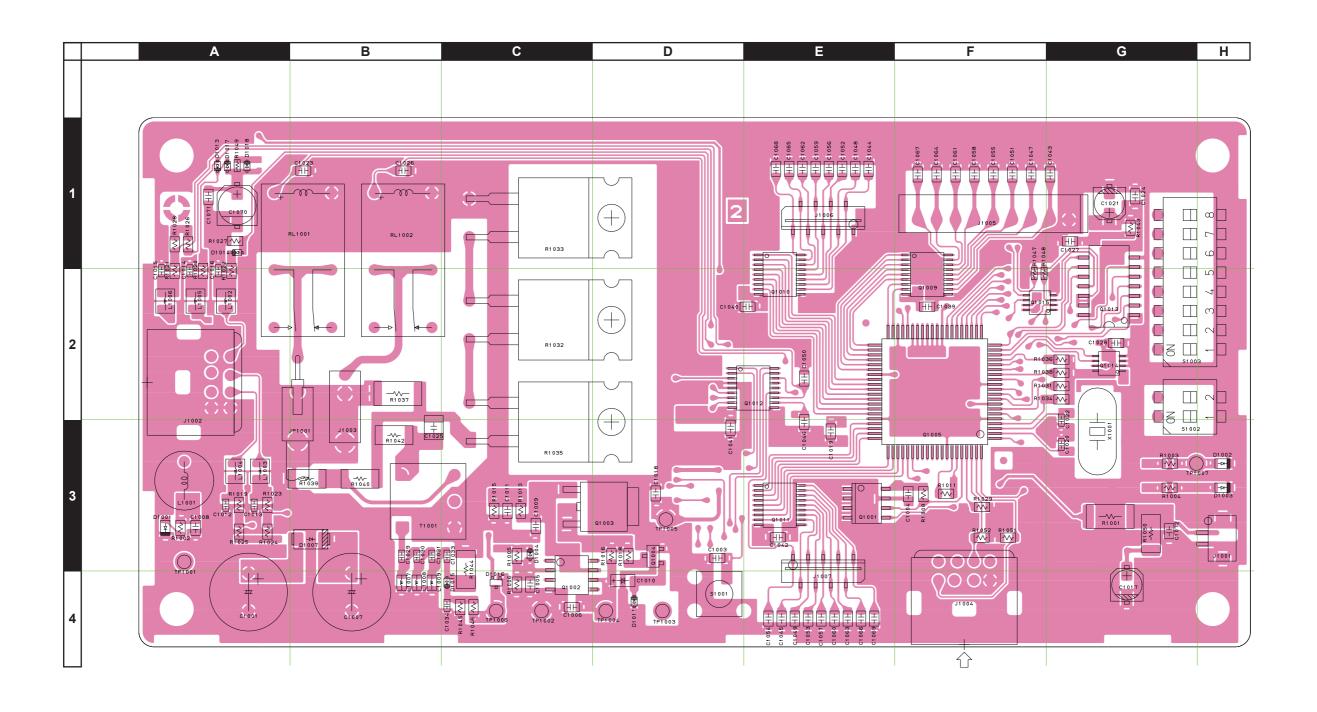
FC-50 BLOCK-DIAGRAM

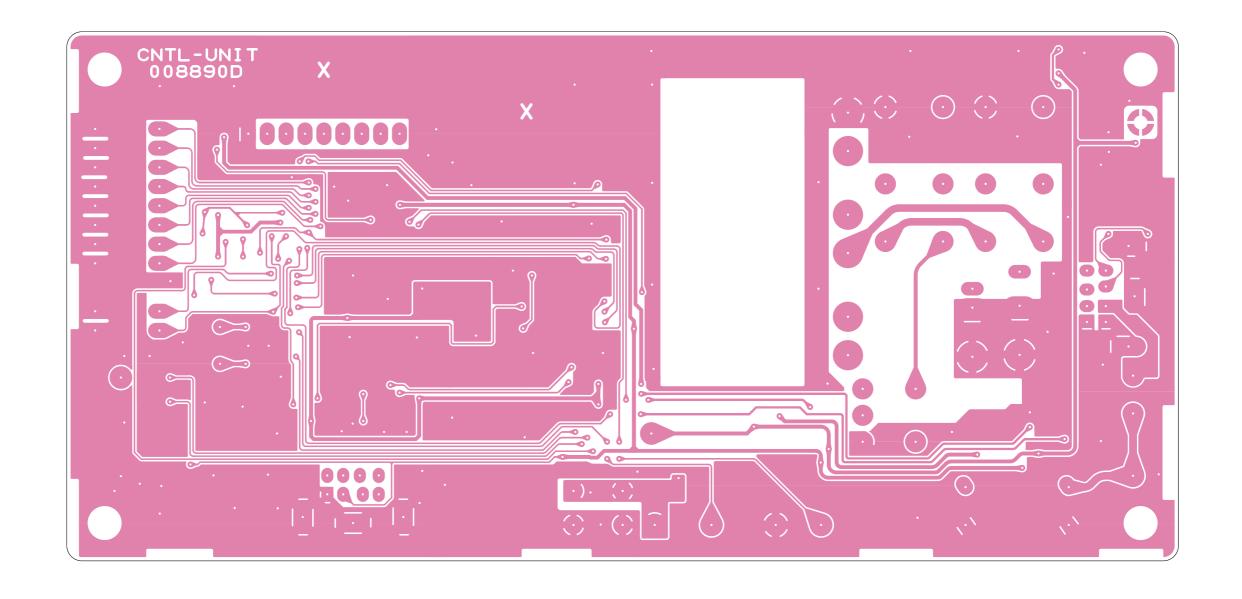




Circuit Diagram





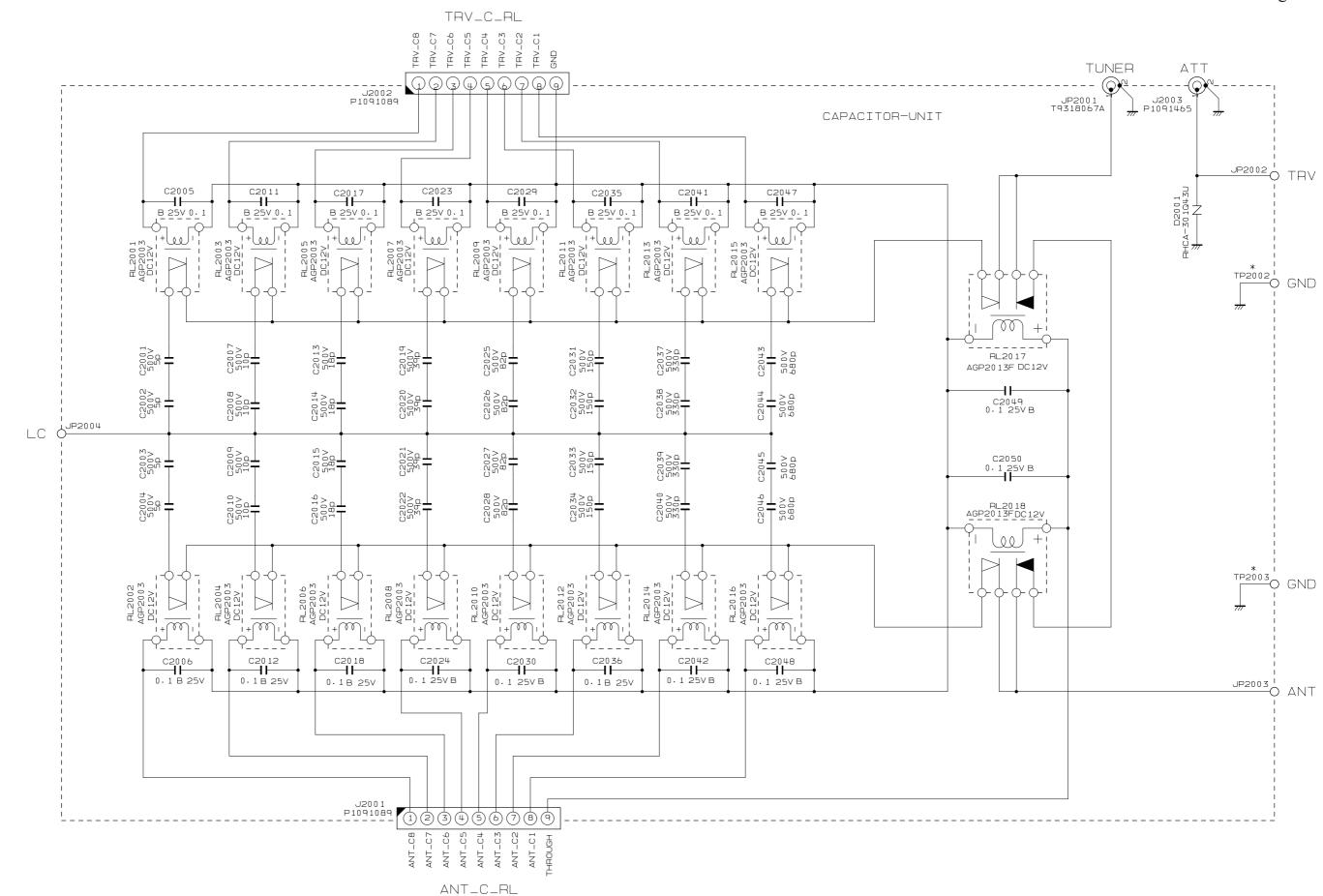


C68 wth Components	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	YAESU P/N	VERS.	LOT	SIDE	I AV ADD
Color ALELECTRO CAP 4704F 25V B RE3_25V4TMH3E 46049044 1. A A D3 D3 D3 D3 D3 D3 D	KEF		VALUE	V/VV	TOL.	WIFK 3 DESIG		VERS.	LOI	SIDE	LAT ADK
C 1009	C 1001	-	470uF	25V		RE3-25V471MH3#			1-	Α	A4
C 1006		CHIP CAP.	0.1uF		В		K22140811				
C 1000		CHIP CAP.	0.1uF		В	GRM21BB11E104KA01L			1-	Α	F3
C 1009	1										_
C 1009					В	I -					_
C 1010	1					l					
C 1010 CHIPTACAR					1						
Color Chille CAP	1			-	В	I -					1
Color Chille CAP					D						
C 1014 CHIP CAP	1			-							
C 1014 CHIP CAP.					1						1
C 1016 CHIP CAP.	1				1	l					
C 1017 ALELECTRC CAP. 101F 25V B EMVAZ50ADA100MD55C K8140014 1- A C 4 C 1018 C 1019 C 101P C AP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A C 3 C 1020 C 101P C AP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A C 3 C 1021 ALELECTRC CAP. 100F 25V C 1020 C 101P C AP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A G 3 C 1021 ALELECTRC CAP. 100F 25V B GRMZ1BB11E104KA01L K22140811 1- A G 3 C 1022 ALELECTRC CAP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A G 1 C 1024 C 101P C AP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A G 1 C 1024 C 101P C AP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A B 3 C 1026 C 101P C AP. 0.1 UF 25V B GRMZ1BB11E104KA01L K22140811 1- A B 3 C 1020 C 1029 C 1	C 1015		0.001uF	50V	В				1-	Α	
C 1019 C HIP CAP	C 1016	CHIP CAP.	0.001uF		В	GRM188B11H102KA01D	K22174821		1-	Α	A2
C1019 CHIP CAP	C 1017	AL.ELECTRO.CAP.	10uF	25V		EMVA250ADA100MD55G	K48140014			Α	
C1020 CHIP CAP. 12pF 50V CH GRM1882C1H120JA01D K22174213 1- A G3 C1022 CHIP CAP. 12pF 50V CH GRM1882C1H120JA01D K22174213 1- A G3 G1023 CHIP CAP. 0.1uF 25V B GRM1881F1160JACA01L K22140811 1- A G1 G1 G1 G1 G1 G1 G1					1						
C1022 ALELECTRO.CAP. 10pf 25V EMVAZ50ADA100MD55G K48140014 1- A G1 G1 GRM1882CH1120JA010 K22174213 1- A G3 G1 G1 GRM1882CH1120JA010 K22140811 1- A G1 G1 GRM1882CH1120JA010 K22140811 1- A G1 G1 G1 GRM188BH1E104KA01L K22140811 1- A G1 G1 GRM18BH1E104KA01L K22140811 1- A G1 G1 G1 GRM18BH1E104KA01L K22140811 1- A G1 G1 G1 G1 G1 G1 G1	1				1						
C1022 CHIP CAP					CH						
C1023 CHIP CAP					CII						
C1024 CHIP CAP.					1						
C1026 FILM CAP	1				1						
C1026 CHIP CAP.					В						
C1027 CHIP CAP.					B						
C1029 CHIP CAP.						I -					
C1030 CHIP CAP 0.002UF 50V B GRM188B11H122KA01D K22174821	1										
C 1031			0.0022uF	50V					1-	Α	
C 1033	C 1030	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	B3
C 1034	C 1031	CHIP CAP.	0.001uF	50V	В	GRM188B11H102KA01D	K22174821		1-	Α	
C 1039					1						
C 1040	1										_
C 1041 CHIP CAP	1				1	I -					
C 1042 CHIP CAP											
C 1043 CHIP CAP					1						
C 1044					1						
C 1045					1	I -					_
C 1046 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E3 C 1047 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1048 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1049 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E4 C 1050 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E2 C 1051 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1052 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1052 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1053 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E4 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E4 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E4 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E4 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1056 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1066 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1 C 1066 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1. A E1					1						
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C 1048	1				1						
C 1049 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1050 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E2 C 1051 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1052 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1053 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1054 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1055 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1055 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1055 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1055 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1055 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1056 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1058 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1058 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1056 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1060 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1060 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1060 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1060 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1062 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1062 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1064 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E4 C 1064 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066 CHIP CAP. 0.1 UF 25 V B GRM21BB11E104KA01L K22140811 1- A E1 C 1066					1	I -					
C 1051	C 1049	CHIP CAP.	0.1uF						1-	Α	E4
C 1052	C 1050	CHIP CAP.	0.1uF	25V	В	GRM21BB11E104KA01L	K22140811		1-	Α	E2
C 1053	C 1051	CHIP CAP.	0.1uF		1	GRM21BB11E104KA01L			1-	Α	
C 1054					1						
C 1055						I -					
C 1056											
C 1057											
C 1058	1										
C 1059											
C 1060											
C 1061						I -					
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C 1067 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A F1 C 1068 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A E1 C 1069 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A E4 C 1070 AL.ELECTRO.CAP. 47uF 6.3V B GRM21BB11E104KA01L K22140811 1- A A1 C 1071 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 C 1072 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 D 1001 LED SML-210VTT86 G2070768 1- A A3 D 1002 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A <td>1</td> <td></td> <td></td> <td>25V</td> <td>В</td> <td></td> <td>K22140811</td> <td></td> <td>1-</td> <td>Α</td> <td>E1</td>	1			25V	В		K22140811		1-	Α	E1
C 1068 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A E1 C 1069 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A E4 C 1070 AL.ELECTRO.CAP. 47uF 6.3V RV2-6V470MU-R K48080004 1- A A1 C 1071 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 C 1072 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 C 1072 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 D 1001 LED SML-210VTT86 G2070768 1- A A3 D 1002 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A B3	1									Α	1
C 1069 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A E4 C 1070 AL.ELECTRO.CAP. 47uF 6.3V RV2-6V470MU-R K48080004 1- A A1 C 1071 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 C 1072 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 D 1001 LED SML-210VTT86 G2070768 1- A A3 D 1002 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A B3 D 1007 DIODE RB521S-30 TE61 G2070642 1- A A1 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1											
C 1070 AL.ELECTRO.CAP. 47uF 6.3V RV2-6V470MU-R K48080004 1- A A1 C 1071 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A1 C 1072 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 1- A A3 D 1001 LED SML-210VTT86 G2070768 1- A H3 D 1003 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A B3 D 1007 DIODE RB521S-30 TE61 G2070642 1- A B4 D 1011 DIODE RB521S-30 TE61 G2070642 1- A A1 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1	1				1						1
C 1071 CHIP CAP. C 1072 0.1uF C 1072 25V D 1001 B D 1001 GRM21BB11E104KA01L ED K22140811 K22140811 1- D 1024 A D 1002 ED A D 1003 ED MI-210VTT86 SML-210VTT86 G2070768 G2070768 1- D 1004 D 1004 A D 1004 D 1007 1- D 1007 D 100DE A D 1007 D 100DE MI-210VTT86 RB521S-30 TE61 G2070768 G20707642 1- D 10 D 1007 A D 1007 D 100DE A D 1001 B3 RB521S-30 TE61 G2070642 G2070642 1- D 10 D 10 A D 1011 A D 1013 A D 1013 A D 1014 A D 1015 A D 1016 A RB521S-30 TE61 G2070642 1- D 10 A D 10	1				В						
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D 1001 LED SML-210VTT86 G2070768 1- A A3 D 1002 LED SML-210MTT86 G2070524 1- A H3 D 1003 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A C3 D 1011 DIODE RB521S-30 TE61 G2070642 1- A D4 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1											
D 1002 LED SML-210MTT86 G2070524 1- A H3 D 1003 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A C3 D 1017 DIODE RB060L-40 TE25 G2070744 1- A B3 D 1011 DIODE RB521S-30 TE61 G2070642 1- A D4 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1			U.TUF	∠ov	R				_		
D 1003 LED SML-210VTT86 G2070768 1- A H3 D 1004 DIODE RB521S-30 TE61 G2070642 1- A C3 D 1007 DIODE RB060L-40 TE25 G2070744 1- A B3 D 1011 DIODE RB521S-30 TE61 G2070642 1- A D4 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1											
D 1004 DIODE RB521S-30 TE61 G2070642 1- A C3 D 1007 DIODE RB060L-40 TE25 G2070744 1- A B3 D 1011 DIODE RB521S-30 TE61 G2070642 1- A D4 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1	1										
D 1007 DIODE RB060L-40 TE25 G2070744 1- A B3 D 1011 DIODE RB521S-30 TE61 G2070642 1- A D4 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1	1										
D 1011 DIODE RB521S-30 TE61 G2070642 1- A D4 D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1	1										
D 1013 DIODE RB521S-30 TE61 G2070642 1- A A1	1										
	1	DIODE									
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	D 1014	DIODE				RB521S-30 TE61	G2070642		1-	Α	A1

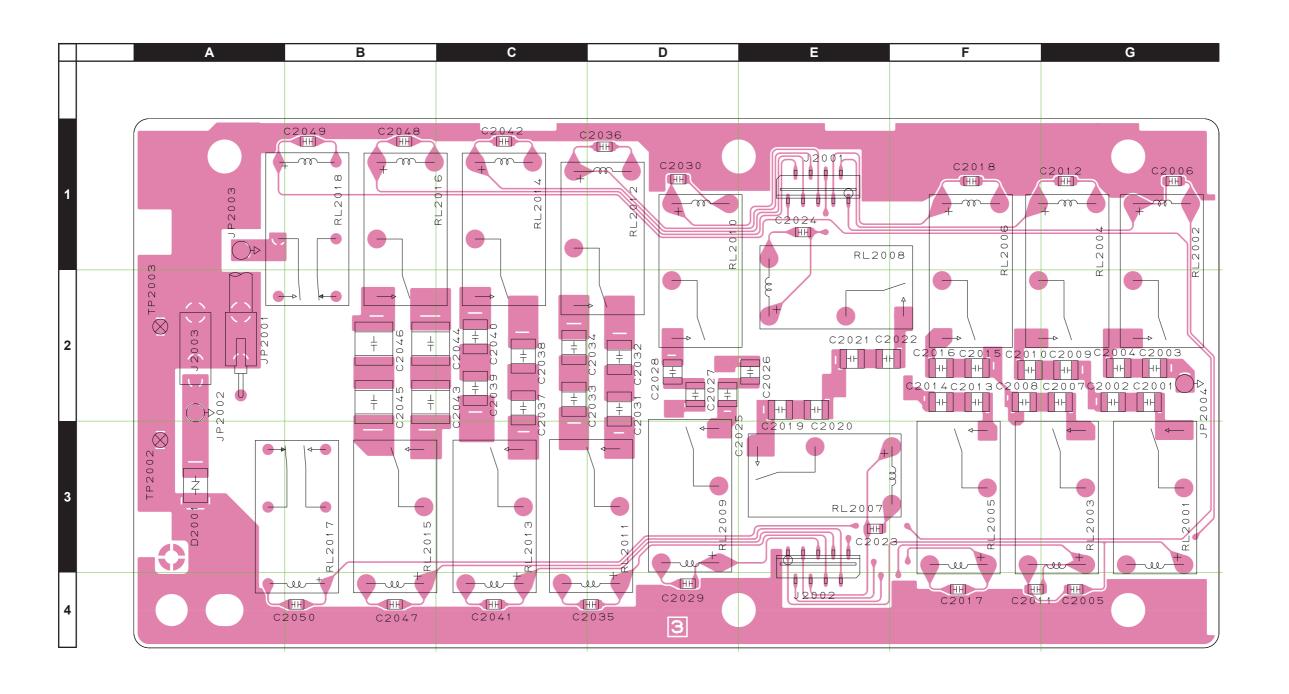
REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	YAESU P/N	VERS.	LOT	SIDE	LAY ADR
D 1015	DIODE				RB521S-30 TE61	G2070642		1-	Α	C4
D 1016	DIODE				DA221 TL	G2070178		1-	Α	C4
D 1017	DIODE				RB521S-30 TE61	G2070642		1-	Α	A1
J 1001	CONNECTOR				B2B-ZR-SM4-TFT(LF)(SN)	P0091342		1-	Α	H3
J 1002 J 1003	CONNECTOR				LNB0508BC-8-05A SJ070010	P1091596 P1091262		1-	A	A2 B2
J 1003	CONNECTOR CONNECTOR				LNB0508BC-8-05A	P1091262 P1091596		1-	A A	F4
J 1004	CONNECTOR				SC25-09WS	P0090628		1-	A	G1
J 1006	CONNECTOR				09FMN-BMTTN-TFT(LF)(SN)	P1091089		1-	A	E1
J 1007	CONNECTOR				09FMN-BMTTN-TFT(LF)(SN)			1-	A	E4
JP1001	WIRE ASSY				YEL 120 TMP/TMP(B1)	T9318067A		1-	Α	B2
L 1001	M.RFC	120uH			RCH-875 121K	L1190396		1-	Α	A3
L 1002	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	Α	A2
L 1003	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	Α	A3
L 1004 L 1005	CHIP COIL CHIP COIL	100uH 100uH			LQH32MN101K23L LQH32MN101K23L	L1690099 L1690099		1-	A A	A3 A2
L 1005	CHIP COIL	100uH			LQH32MN101K23L	L1690099		1-	A	A2 A2
L 1007	M.RFC	3.3uH			LK2125 3R3K-T	L1690325		1-	A	B4
L 1008	M.RFC	2.7uH			LK2125 2R7K-T	L1690324		1-	A	B4
L 1009	M.RFC	3.3uH			LK2125 3R3K-T	L1690325		1-	Α	B4
Q 1001	IC				24LC16BT-I/SN	G1091852		1-	Α	E3
Q 1002	IC				RNA51955BFPH0	G1095445		1-	Α	C4
Q 1003	IC TRANSISTOR				L78M05T-TL	G1091731		1-	A	D3
Q 1004 Q 1005	TRANSISTOR IC				DTC114YKA T146 HD64F2132RFA20(FLASH)	G3070514		1-	A A	D3 F2
Q 1005 Q 1009	IC IC				TBD62783AFNG	X G1095302		1-	A	F2
Q 1009	IC IC				TBD62783AFNG	G1095302 G1095302		1-	A	E2
Q 1011	iC				TBD62783AFNG	G1095302		1-	A	E3
Q 1012	IC				TBD62783AFNG	G1095302		1-	Α	E2
Q 1013	IC				TC74HC32AF(EL)	G1093500		1-	Α	G2
Q 1014	IC				TC4W53FU(TE12L_F)	G1091675		1-	Α	G2
Q 1015	IC OLUB DEC	4.7	4) 0 /	F0/	TC7WU04FU (TE12L.F)	G1091942		1-	Α	F2
R 1001 R 1002	CHIP RES. CHIP RES.	4.7 4.7k	1W 1/10W	5% 5%	RMC1 4R7JTE RMC1/10T 472J	J24305479 J24205472		1-	A A	G3 A3
R 1002	CHIP RES.	1.5k	1/10W	5%	RMC1/10T 4723 RMC1/10T 152J	J24205472 J24205152		1-	A	G3
R 1003	CHIP RES.	1.5k	1/10W	5%	RMC1/10T 152J	J24205152		1-	A	G3
R 1005	CHIP RES.	8.2k	1/10W	5%	RMC1/10T 822J	J24205822		1-	A	C3
R 1006	CHIP RES.	1.8k	1/10W	5%	RMC1/10T 182J	J24205182		1-	Α	C4
R 1008	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	Α	F3
R 1011	CHIP RES.	1.8k	1/10W	5%	RMC1/10T 182J	J24205182		1-	Α	F3
R 1013	CHIP RES. CHIP RES.	15k 8.2k	1/10W	5%	RMC1/10T 153J	J24205153 J24205822		1-	A	C3 C3
R 1015 R 1016	CHIP RES.	6.∠K 47k	1/10W 1/10W	5% 5%	RMC1/10T 822J RMC1/10T 473J	J24205822 J24205473		1-	A A	D3
R 1018	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	D3
R 1019	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	A	A3
R 1020	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	Α	A2
R 1021	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	Α	A2
R 1022	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	Α	A2
R 1023	CHIP RES.	270	1/10W	5%	RMC1/10T 271J	J24205271		1-	Α	A3
R 1024 R 1025	CHIP RES. CHIP RES.	47k 47k	1/10W 1/10W	5% 5%	RMC1/10T 473J RMC1/10T 473J	J24205473 J24205473		1-	A A	A3 A3
R 1025	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473 J24205473		1-	A	A3 A1
R 1020	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A1
R 1028	CHIP RES.	47k	1/10W	5%	RMC1/10T 473J	J24205473		1-	A	A1
R 1029	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	Α	F3
R 1031	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	Α	G2
R 1032	METAL FILM RES.	33	20W	1%	RNP-20S C330F 33	J22439011		1-	A	D2
R 1033	METAL FILM RES.	33	20W 1/10W	1%	RNP-20S C330F 33	J22439011		1-	A	D1
R 1034 R 1035	CHIP RES. METAL FILM RES.	10k 180	20W	5% 1%	RMC1/10T 103J RNP-20S C181F 180	J24205103 J22439013		1-	A A	G2 D3
R 1035	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	A	G2
R 1037	CHIP RES.	68	1W	5%	RMC1 680JTE	J24305680		1-	A	B2
R 1038	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	Α	G2
R 1039	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	Α	B3
R 1040	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	Α	B3
R 1042	CHIP RES.	47	1/2W	5%	RMC1/2 470JCTP	J24275470		1-	A	B3
R 1043 R 1044	CHIP RES.	100	1/10W 1/2W	5% 5%	RMC1/10T 101J	J24205101		1-	A	G1
R 1044 R 1045	CHIP RES. CHIP RES.	47 100k	1/200 1/10W	5% 5%	RMC1/2 470JCTP RMC1/10T 104J	J24275470 J24205104		1-	A A	C3 C4
R 1045	CHIP RES.	1k	1/10W	5%	RMC1/10T 1043	J24205104 J24205102		1-	A	C4
R 1047	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	A	F2
R 1048	CHIP RES.	470k	1/16W	5%	RMC1/16 474JATP	J24185474		1-	Α	F2
R 1049	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	Α	A1
R 1051	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	Α	F3
R 1052	CHIP RES.	10k	1/10W	5%	RMC1/10T 103J	J24205103		1-	Α	F3

CNTL Unit

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	YAESU P/N	VERS.	LOT	SIDE	LAY ADR
RL1001		VALUE	DC12V	I JL.	AGP2013F DC12V	M1190198	VLING.	1-	A	B2
RL1002	RELAY		DC12V		AGP2013F DC12V	M1190198		1-	Α	B2
S 1001	TACT SWITCH				SKHHARA010	N5090034		1-	Α	D4
S 1002	DIP SWITCH				SSGM120100	N7090147		1-	A	G2
S 1003 T 1001	DIP SWITCH COIL 10WIDE				SSGM180100 1-1 FB801-43	N7090149 L0022427		1-	A	G2 C3
X 1001	XTAL HC-49U/4	19.6608MHz	7		19.6608MHZ	H0103342		1-	A	G3
X 1001	HEAT SINK	13.000011112	_		SP141K	S5000229		1-		- 00
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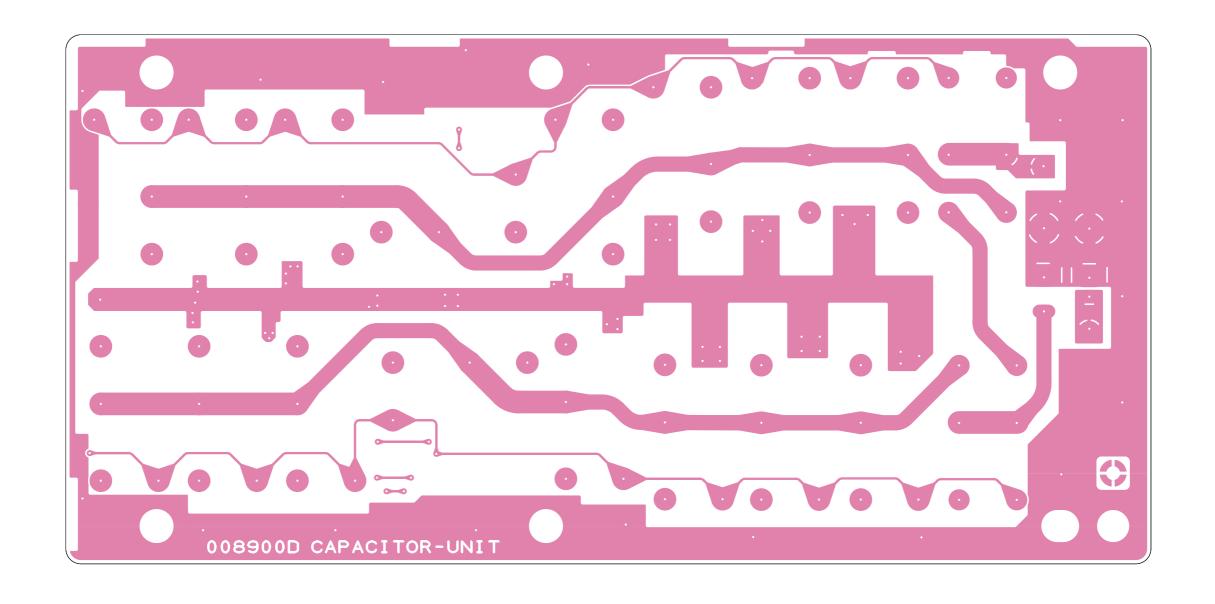


Parts Layout (side A)



CAPACITOR-2 FC-50 Technical Supplement

Parts Layout (side B)



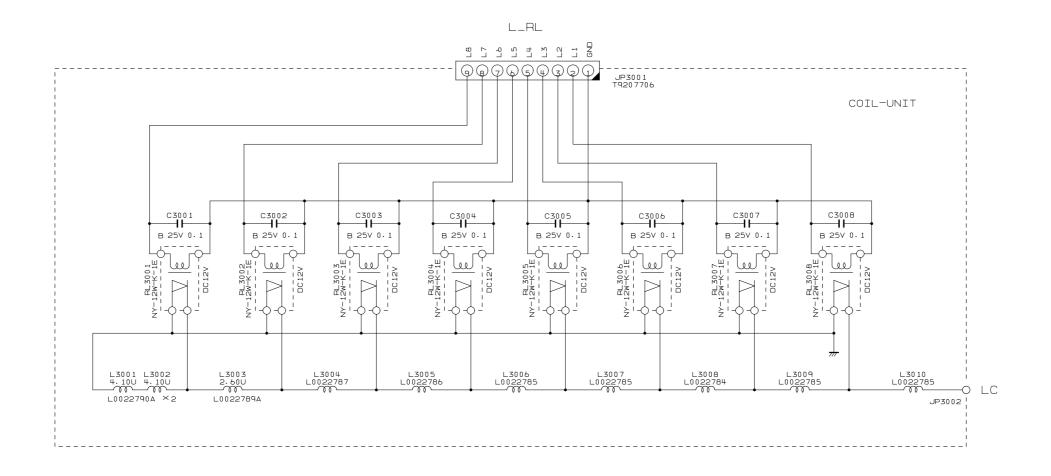
CAPACITOR-3 FC-50 Technical Supplement

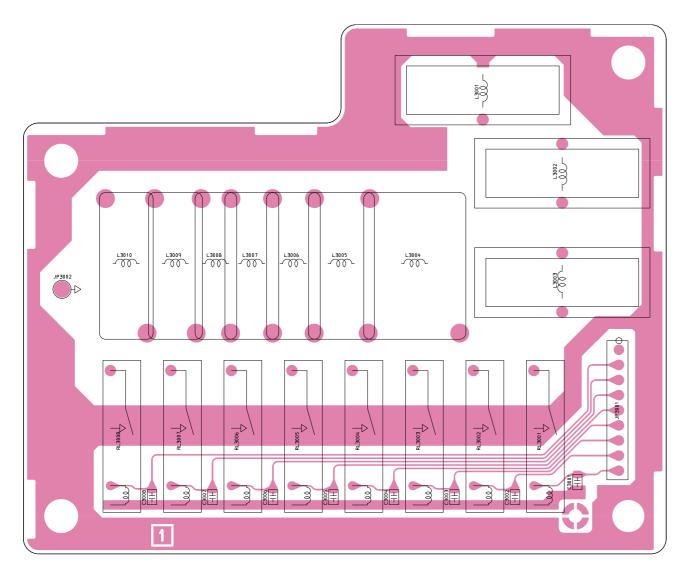
CAPACITOR Unit

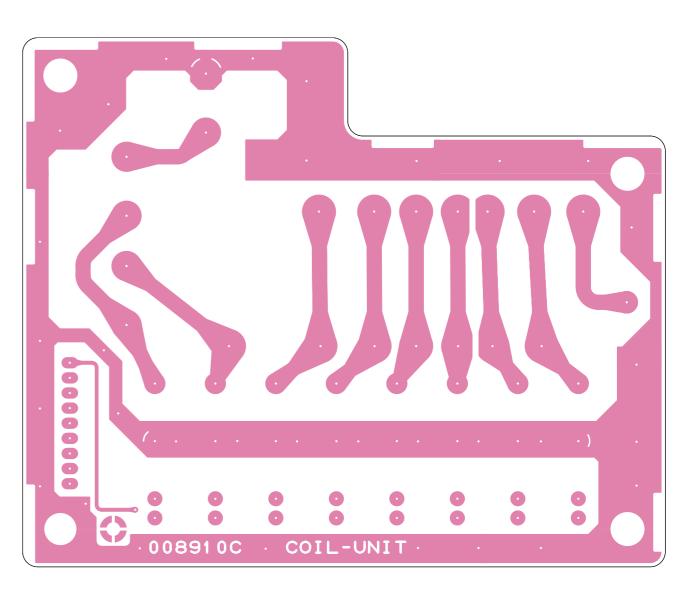
REF DESCRIPTION VALUE V/W TOL. MFR'S DESIG YAESU P/N PCB with Components CS2476701 CS2476701 C 2001 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2002 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2003 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2004 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2005 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2006 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A A A A A A A A	G2 G2 G2 G2 G4 G1 G2 F2 G2 F2
C 2002 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2003 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2004 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2005 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2006 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2009 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A A A A A A A A	G2 G2 G4 G1 G2 F2 G2 F2 F4
C 2003 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2004 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2005 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2006 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2009 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A A A A A A A	G2 G4 G1 G2 F2 G2 F2 F2 F4
C 2004 FILM CAP. 5pF 500V UC232H0050D-T K33279010 C 2005 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2006 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2009 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A A A A A A	G2 G4 G1 G2 F2 G2 F2 F4
C 2005 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2006 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A A A A A A	G4 G1 G2 F2 G2 F2 F4
C 2006 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2009 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1- 1-	A A A A A A	G1 G2 F2 G2 F2 F4
C 2007 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2009 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1- 1- 1-	A A A A A	G2 F2 G2 F2 F4
C 2008 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2009 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1-	A A A A	F2 G2 F2 F4
C 2010 FILM CAP. 10pF 500V UC232H0100D-T K33279019 C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1- 1-	A A A	F2 F4
C 2011 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1- 1-	A A A	F4
C 2012 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1- 1- 1- 1-	A A	
	1- 1- 1-	Α	
C 2013 FILM CAP. 18pF 500V UC232H0180J-T K33279029	1- 1-	1	G1 F2
C 2014 FILM CAP. 18pF 500V UC232H0180J-T K33279029	1-	l A	F2
C 2015 FILM CAP. 18pF 500V UC232H0180J-T K33279029	1-	A	F2
C 2016 FILM CAP. 18pF 500V UC232H0180J-T K33279029		Α	F2
C 2017 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	Α	F4
C 2018 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	Α	F1
C 2019 FILM CAP. 39pF 500V UC232H0390J-T K33279038	1-	A	E2
C 2020 FILM CAP. 39pF 500V UC232H0390J-T K33279038 C 2021 FILM CAP. 39pF 500V UC232H0390J-T K33279038	1-	A	E2 E2
C 2022 FILM CAP. 39pF 500V UC232H0390J-T K33279038	1-	A	E2
C 2023 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	E3
C 2024 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	E1
C 2025 FILM CAP. 82pF 500V UC232H0820J-T K33279033	1-	Α	D2
C 2026 FILM CAP. 82pF 500V UC232H0820J-T K33279033	1-	Α	E2
C 2027 FILM CAP. 82pF 500V UC232H0820J-T K33279033	1-	Α	D2
C 2028 FILM CAP. 82pF 500V UC232H0820J-T K33279033	1-	A	D2
C 2029 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	D4
C 2030 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2031 FILM CAP. 150pF 500V UC342H1500J-T K33279012	1-	A	D1 D2
C 2031 FILM CAP. 130PF 500V 0C342H1500J-T R33279012 C 2032 FILM CAP. 150pF 500V UC342H1500J-T K33279012	1-	A	D2
C 2033 FILM CAP. 150pF 500V UC342H1500J-T K33279012	1-	A	C2
C 2034 FILM CAP. 150pF 500V UC342H1500J-T K33279012	1-	Α	C2
C 2035 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	Α	D4
C 2036 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	Α	D1
C 2037 FILM CAP. 330pF 500V UC342H3300J-T K33279014	1-	A	C2
C 2038 FILM CAP. 330pF 500V UC342H3300J-T K33279014 C 2039 FILM CAP. 330pF 500V UC342H3300J-T K33279014	1-	A	C2 C2
C 2039 FILM CAP. 330pF 500V UC342H3300J-T K33279014 C 2040 FILM CAP. 330pF 500V UC342H3300J-T K33279014	1-	A	C2
C 2041 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	Â	C4
C 2042 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	C1
C 2043 FILM CAP. 680pF 500V UC552H6800J-T K33279042	1-	Α	B2
C 2044 FILM CAP. 680pF 500V UC552H6800J-T K33279042	1-	Α	B2
C 2045 FILM CAP. 680pF 500V UC552H6800J-T K33279042	1-	A	B2
C 2046 FILM CAP. 680pF 500V UC552H6800J-T K33279042 C 2047 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	B2
C 2047 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811 C 2048 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	B4 B1
C 2049 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	B1
C 2050 CHIP CAP. 0.1uF 25V B GRM21BB11E104KA01L K22140811	1-	A	B4
D 2001 SURGE ABSORBER RHCA-301Q43U Q9000827	1-	Α	A3
J 2001 CONNECTOR 09FMN-BMTTN-TFT(LF)(SN) P1091089	1-	A	E1
J 2002 CONNECTOR 09FMN-BMTTN-TFT(LF)(SN) P1091089 J 2003 CONNECTOR SJ060010 P1091465	1-	A	E3
J 2003 CONNECTOR SJ060010 P1091465 JP2001 WIRE ASSY YEL 120 TMP/TMP(B1) T9318067A	1-	A	A2 A2
P 2001 WIRE ASSY VIO 105<5>/5> T9318374	1-	<u> </u>	A2
P 2002 WIRE ASSY VIO 30 <5>/<5> T9318189	1-	1	
P 2003 WIRE ASSY VIO 30 <5>/<5> T9318189	1-		
RL2001 RELAY DC12V AGP2003 DC12V M1190075	1-	Α	G3
RL2002 RELAY DC12V AGP2003 DC12V M1190075	1-	A	G1
RL2003 RELAY DC12V AGP2003 DC12V M1190075 RL2004 RELAY DC12V AGP2003 DC12V M1190075	1-	A	F3 G1
RL2004 RELAY DC12V AGP2003 DC12V M1190075 RL2005 RELAY DC12V AGP2003 DC12V M1190075	1-	A	F3
RL2006 RELAY DC12V AGP 2003 DC12V M1190075	1-	Â	F1
RL2007 RELAY DC12V AGP2003 DC12V M1190075	1-	A	F3
RL2008 RELAY DC12V AGP2003 DC12V M1190075	1-	Α	E1
RL2009 RELAY DC12V AGP2003 DC12V M1190075	1-	Α	D3
RL2010 RELAY DC12V AGP2003 DC12V M1190075	1-	A	D1
RL2011 RELAY DC12V AGP2003 DC12V M1190075	1-	A	C4
RL2012 RELAY DC12V AGP2003 DC12V M1190075 RL2013 RELAY DC12V AGP2003 DC12V M1190075	1-	A A	D1 C4
RL2013 RELAY DC12V AGP2003 DC12V M1190075 RL2014 RELAY DC12V AGP2003 DC12V M1190075	1-	A	C1
RL2015 RELAY DC12V AGP2003 DC12V M1190075	1-	A	B4
RL2016 RELAY DC12V AGP2003 DC12V M1190075	1-	A	B1

CAPACITOR Unit

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	YAESU P/N	VERS.	LOT	SIDE	LAY ADR
RL2017 RL2018	RELAY		DC12V DC12V		AGP2013F DC12V AGP2013F DC12V	M1190198 M1190198		1- 1-	A A	A3 B2
KLZUIÖ	NELAT		DC12V		AGFZUINF DCIZV	MILIANIAO		'-	A	DZ
						ĺ				ı I







Side A Side B

COIL-2 FC-50 Technical Supplement

COIL Unit

RFF	DESCRIPTION	VALUE	V/W	TOI	MER'S DESIG	YAESU P/N	VFRS	LOT	SIDE	LAY AND
	PCB with Components	TALUL	2144	.02.	IIII IX O DEGIG	CS2479701	TLING.		SIDE	בתו אטו/
C 3001 C 3002 C 3003 C 3004 C 3005 C 3006 C 3007 C 3008 C 3007 C 3008 C 3007 C 3008 C 3007 C 3008 C 3000 C	DESCRIPTION PCB with Components CHIP CAP. WIRE ASSY TOROIDAL COIL TOROIDAL COIL TOROIDAL COIL COIL A1 COIL A1 COIL A1 COIL A1 COIL A1 RELAY RELAY RELAY RELAY RELAY RELAY RELAY RELAY RELAY	0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 4.1uH 4.1uH 2.6uH	DC12V DC12V DC12V DC12V DC12V DC12V DC12V DC12V	TOL: BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	GRM21BB11E104KA01L GRM21BB11E104KA01L GRM21BB11E104KA01L GRM21BB11E104KA01L GRM21BB11E104KA01L GRM21BB11E104KA01L GRM21BB11E104KA01L ABA53X 200MM9P 4.10U T80-2 4.10U T80-2 6.5T16D1.6PEW R 2.5T16D1.6PEW R 2.	YAESU P/N CS2479701 K22140811 K22140811 K22140811 K22140811 K22140811 K22140811 T9207706 L0022790A L0022789A L0022785 L0022785 L0022785 M1190168 M1190168 M1190168 M1190168 M1190168 M1190168 M1190168 M1190168	VERS.	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	SIDE	LAY ADR



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