

8.1.3 Bill of Materials FE9M

FE9M Bill of Materials
900-940 MHz

K-Number	Description	Qty per Module	Designation	Manufacture	Mfr Part #	Prime Supplier	Supplier Part #
FE9A	OFRR Assy - 800 FE	1		Kaval	FE9A	n/a	
020D	Box - 020D FE Module	1		DyTech	Dwg - 0-020-0-D	Mfr.	
110A1	Box Lid - Lge Module	1		DyTech	Dwg.00M00B110A-1	Mfr.	
RG316	Cable, coax RG316 (Prod.)	1.5'	Brd-RF-in/N-Corrn	Belden	83284	ElectroSonic	83284
22MCX	Corrn. 22MCX Corrn. (OFRR)	2	Box-LO, Box-IF	Johnson	133-3701-401	Promark	
8224	Corrn. N OFRR 8224	1	Box-RF	Amphenol	8224	Richardson	8224
83765	Corrn. OFRR FE Corrn Hood	1	Box-RF	Amphenol	83-765	Richardson	83-765
4201T	Feedthru, DC, 4201T-Tusconix	1	Box-DC-feedthru	Tusconix	4201 001	Tusconix	4201 001
7HT1328	Helical - 7HT (3p) 1328D-835MHz	1	FL101	TOKO	302HXPk-1328D1	Digi Key	TK3403-ND
7HT606	Helical - 7HT (3p) 606F-600MHz	1	FL103	TOKO	302HXPk-606D	Avnet	302HXPk-606D
CBW1166	Helical - CBW (2p) 1166-220MHz	1	FL102	TOKO	271MT-1166A	Digi Key	TK3601-ND
PRO2-6R2	Res. - 2 W PRO2J - 6.2 ohm	1	R135(DC-feedthru-input)	Phillips	PRO2J(value)		
MCXSH	Shield - MCX Shim - OFRR (Wolf)	2	S1, 2	Wolf Mfg.	0-350-0-A (Q97001)	Mfr.	MCX SHIMS
FE9M	OFRR Module - 900 FE	1	Module	Kaval	FE9M		

Note: Helicals modified as follows:

7HT1328	Helical - 7HT (3p) 1328D-835MHz	Remove 1/2 turn
7HT606	Helical - 7HT (3p) 606F-600MHz	Remove 1/2 turn
CBW1166	Helical - CBW (2p) 1166-220MHz	Remove 1 turn

FEBA Bill of Materials

K-Number	Description	Qty / Board	Designation	Manufacturer	Manufacturer Part #	Prime Supplier	Supplier Part #	Alt./ Supplier	Supplier Part #
120B	Board, OFR 800 FE 120	1	base board	Network Circuits	000-120-02	Mill.			
CER100	Cap,elec,radial 100uF/25V	2	C144,146	Philips	037-90054	ElectroSonic	037-90054		
C12061.5	Cap, chip 1206, 1.5pF	1	C115	Panenco/Philips	See supplier #	DigiKey	PCC 1R5CCT-ND	ElectroSonic	1206CG150C98B0
C120610	Cap, chip 1206, 10pF	4	C117, 127, 152, 156	Panenco/Philips	See supplier #	DigiKey	PCC 100CCT-ND	ElectroSonic	1206CG100J98B0
C1206100	Cap, chip 1206, 100pF	9	C102, 104, 105, 135, 136, 137	Panenco/Philips	See supplier #	DigiKey	PCC 101CCT-ND	ElectroSonic	1206CG101J98B0
			139,141,158						
C120610N	Cap, chip 1206, 10nF	1	C101, 103, 107, 110, 119, 120	Panenco/Philips	See supplier #	DigiKey	PCC 103BCT-ND	ElectroSonic	12062R103K98B0
			C121, 122, 123, 138, 143, 157						
C12061N	Cap, chip 1206, 1nF	11	C124, 128, 134, 140, 145, 147	Panenco/Philips	See supplier #	DigiKey	PCC 102BCT-ND	ElectroSonic	1206CG102J98B0
			C150, 159, 160, 161, 162						
C120622	Cap, chip 1206, 22pF	1	C132	Panenco/Philips	See supplier #	DigiKey	PCC 220CCT-ND	ElectroSonic	1206CG220J98B0
C1206270	Cap, chip 1206, 270pF	12	C106, 108, 109, 111, 112, 113	Panenco/Philips	See supplier #	DigiKey	PCC 271BCT-ND	ElectroSonic	1206CG271J98B0
			C125, 126, 129, 142, 149, 149						
C12063.3	Cap, chip 1206, 3.3pF	1	C130	Panenco/Philips	See supplier #	DigiKey	PCC 3R3CCT-ND	ElectroSonic	1206CG33K98B0
C12063.9	Cap, chip 1206, 3.9pF	1	C116	Panenco/Philips	See supplier #	DigiKey	PCC 3R9CCT-ND	ElectroSonic	1206CG39K98B0
C12068.2	Cap, chip 1206, 8.2pF	4	C114, 118, 151, 153	Panenco/Philips	See supplier #	DigiKey	PCC 8R2CCT-ND	ElectroSonic	1206CG82K98B0
IM2.68	Inductor - IM2, 0.68uH	5	L101, 102, 103, 107, 112	Date	IM2-68uH-10	FAL	IM2-68uH-10		
IM2.4.7	Inductor - IM2, 4.7uH	1	L106	Date	IM2-4.7uH-10	FAL	IM2-4.7uH-10		
MAVR6	Amplifier, RF	1	IC101	Mini Circuits	MAVR-6	Giga Tron	MAVR-6		
MAVR11	Amplifier, RF	5	IC103, 104, 106, 107, 108	Mini Circuits	MAVR-11	Giga Tron	MAVR-11		
SFR16-150	Res, MF-1/2W 5%, 150 ohm	1	R132	Philips	MRP25F				
RC10	Res. - RC01J-10	5	R105, 107, 114, 122, 126	Panenco/Philips	1206 series - 10ohm	DigiKey	P+(10 ohm)+ECT-ND	ElectroSonic	RC01J - 10
RC10K	Res. - RC01J-10K	1	R133	Panenco/Philips	1206 series - 10K	DigiKey	P+(10K)+ECT-ND	ElectroSonic	RC01J - 10K
RC150	Res. - RC01J-150	1	R136	Panenco/Philips	1206 series - 150ohm	DigiKey	P+(150 ohm)+ECT-ND	ElectroSonic	RC01J - 150
RC16	Res. - RC01J-16	1	R131	Panenco/Philips	1206 series - 16ohm	DigiKey	P+(16 ohm)+ECT-ND	ElectroSonic	RC01J - 16
RC18	Res. - RC01J-18	2	R106, 118	Panenco/Philips	1206 series - 18ohm	DigiKey	P+(18 ohm)+ECT-ND	ElectroSonic	RC01J - 18
RC180	Res. - RC01J-180	7	R102, 104, 106, 113, 116, 121	Panenco/Philips	1206 series - 180ohm	DigiKey	P+(180 ohm)+ECT-ND	ElectroSonic	RC01J - 180
			R125						
RC220	Res. - RC01J-220	2	R123, 124	Panenco/Philips	1206 series - 220ohm	DigiKey	P+(220 ohm)+ECT-ND	ElectroSonic	RC01J - 220
RC27	Res. - RC01J-27	1	R103	Panenco/Philips	1206 series - 27ohm	DigiKey	P+(27 ohm)+ECT-ND	ElectroSonic	RC01J - 27
RC270	Res. - RC01J-270	2	R109, 119	Panenco/Philips	1206 series - 270ohm	DigiKey	P+(270 ohm)+ECT-ND	ElectroSonic	RC01J - 270
RC30	Res. - RC01J-30	1	R117	Panenco/Philips	1206 series - 30ohm	DigiKey	P+(30 ohm)+ECT-ND	ElectroSonic	RC01J - 30
RC82	Res. - RC01J-82	2	R110, 112	Panenco/Philips	1206 series - 82ohm	DigiKey	P+(82 ohm)+ECT-ND	ElectroSonic	RC01J - 82
RC91	Res. - RC01J-91	1	R111	Panenco/Philips	1206 series - 91ohm	DigiKey	P+(91 ohm)+ECT-ND	ElectroSonic	RC01J - 91
SBL1	Mixer	1	IC105	Mini Circuits	SBL1	Giga Tron	SBL1		
SCM2	Mixer	1	IC102	Mini Circuits	SBL1	Giga Tron	SCM2		

FEBA Bill of Materials

K-Number	Description	Qty / Board	Designation	Manufacturer	Manufacturer Part #	Prime Supplier	Supplier Part #	Alttem. Supplier	Supplier Part #
2N5067	Trans - 2N5067	7	Q101, 102, 103, 104, 105, 107	Generic	2N5067	FAI	2N5067	ElectroSonic	2N5067
MMBR571	Trans - MMBR571LT1	1	Q106	Generic	MMBR571LT1	FAI	MMBR571LT1	ElectroSonic	MMBR571LT1
MP-S2222	Trans - MP-S2222	1	Q109	Motorola	2N2222A	FAI	2N2222	ElectroSonic	MP-S2222
8524	Wire, 8524, Belden inches	2		Belden	8524	ElectroSonic	033-8524-colour-length		
FEBA	OFH Assy - 800 FE	1	Assembly	Kaval	FEBA	n/a			