

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-Corn | Balden | 83284 | ElectroSonic | 83284 |
| 22MCX | Corn. 22MCX Corn. (OFFR) | 2 | Box-LO, Box-IF | Johnson | 133-3701-401 | Promark | |
| 8224 | Corn. N OFFR 8224 | 1 | Box-RF | Amphenol | 8224 | Richardson | 8224 |
| 83765 | Corn. OFFR FE Corn Hood | 1 | Box-RF | Amphenol | 83-765 | Richardson | 83-765 |
| 4201T | Feedthru, DC, 4201T-Tussonix | 1 | Box-DC-feedthru | Tussonix | 4201 001 | Tussonix | 4201 001 |
| 7HT1328 | Helical - 7HT (3p) 1328D-835MHz | 1 | FL101 | TOKO | 302HXPk-1328D1 | Digitl 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 | Digitl Key | TK3601-ND |
| PRO2-6R2 | Res. - 2 W PRO2J - 6.2 ohm | 1 | R136(DC-feedthru-input) | Phillips | PRO2J(value) | | |
| MCXSH | Shield - MCX Shim - OFFR (Wol) | 2 | St. 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 |

FE8A Bill of Materials

| K-Number | Description | Qty / Board | Designation | Manufacturer | Manufacturer Part # | Prime Supplier | Supplier Part # | Altern. Supplier | Supplier Part # |
|-----------|---------------------------|-------------|-------------------------------|------------------|----------------------|----------------|--------------------|------------------|-----------------|
| 120B | Board, OFR 800 FE 120 | 1 | base board | Network Circuits | 000-120-02 | Mfr. | | | |
| CER100 | Cap,elec,radiat 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 | 1206CG150C98B90 |
| C120610 | Cap, chip 1206, 10pF | 4 | C117, 127, 152, 156 | Panenco/Philips | See supplier # | DigiKey | PCC 100CCT-ND | ElectroSonic | 1206CG100J95B0 |
| C1206100 | Cap, chip 1206, 100pF | 9 | C102, 104, 105, 135, 136, 137 | Panenco/Philips | See supplier # | DigiKey | PCC 101CCT-ND | ElectroSonic | 1206CG101J95B0 |
| C120610N | Cap, chip 1206, 10nF | 1 | 139,141,158 | | | | | | |
| | | | 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 | 1206CG102J95B0 |
| | | | C150, 159, 160, 161, 162 | | | | | | |
| C120622 | Cap, chip 1206, 22pF | 1 | C132 | Panenco/Philips | See supplier # | DigiKey | PCC 220CCT-ND | ElectroSonic | 1206CG220J95B0 |
| C1206270 | Cap, chip 1206, 270pF | 12 | C106, 108, 109, 111, 112, 113 | Panenco/Philips | See supplier # | DigiKey | PCC 271BCT-ND | ElectroSonic | 1206CG271J95B0 |
| | | | C125, 126, 129, 142, 149, 149 | | | | | | |
| C12063.3 | Cap, chip 1206, 3.3pF | 1 | C130 | Panenco/Philips | See supplier # | DigiKey | PCC 3R3CCT-ND | ElectroSonic | 1206CG33R98B90 |
| C12063.9 | Cap, chip 1206, 3.9pF | 1 | C116 | Panenco/Philips | See supplier # | DigiKey | PCC 3R9CCT-ND | ElectroSonic | 1206CG39R98B90 |
| C12068.2 | Cap, chip 1206, 8.2pF | 4 | C114, 118, 151, 153 | Panenco/Philips | See supplier # | DigiKey | PCC 8R2CCT-ND | ElectroSonic | 1206CG82R98B90 |
| IM2.68 | Inductor - IM2, 0.68uH | 5 | L101, 102, 103, 107, 112 | Daie | IM2-68uH-10 | FAI | IM2-68uH-10 | ElectroSonic | 1206CG68R98B90 |
| IM2.4.7 | Inductor - IM2, 4.7uH | 1 | L108 | Daie | IM2-4.7uH-10 | FAI | IM2-4.7uH-10 | | |
| MAA86 | Amplifier, RF | 1 | IC101 | Mini Circuits | MAA-8 | Giga Tron | MAA-8 | | |
| MAV11 | Amplifier, RF | 5 | IC103, 104, 106, 107, 108 | Mini Circuits | MAV-11 | Giga Tron | MAV-11 | | |
| SFR16-150 | Res, MF-1/2W 5%, 150 ohm | 1 | R132 | Philips | MRF25F | | | | |
| 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 | R108, 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 # | Altern. Supplier | Supplier Part # |
|----------|---------------------------|-------------|-------------------------------|--------------|---------------------|----------------|------------------------|------------------|-----------------|
| 2N5087 | Trans - 2N5087 | 7 | Q101, 102, 103, 104, 105, 107 | Generic | 2N5087 | FAI | 2N5087 | ElectroSonic | 2N5087 |
| MMBR571 | Trans - MMBR571LT1 | 1 | Q108 | Generic | MMBR571LT1 | FAI | MMBR571LT1 | ElectroSonic | MMBR571LT1 |
| MP52222 | Trans - MP52222 | 1 | Q109 | Motorola | 2N2222A | FAI | 2N2222 | ElectroSonic | MP52222 |
| 8524 | Wire, 8524, Belden inches | 2 | | Belden | 8524 | ElectroSonic | 033-8524-colour-length | | |
| FEBA | OFN Assy - 800 FE | 1 | Assembly | Kaval | FEBA | n/a | | | |