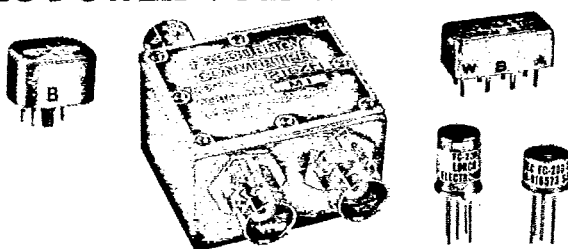


GENERAL PURPOSE DOUBLE BALANCED MIXERS T-74-09-01**PC AND CONNECTOR VERSIONS****200 KHz to 1250 MHz**
LO POWER +7dBm
**PC
VERSION**
FC-200R
FC-200W
FC-200Z
**CONN.
VERSION**
FC-201R
FC-201W
FC-201Z
**FREQ.
RANGE**
0.2 to 500 MHz
0.2 to 600 MHz
2 to 1250 MHz

Models FC-200R/FC-201R, FC-200W/FC-201W and FC-200Z/FC-201Z offer high performance, in various critical areas, over the frequency range 0.2 MHz to 1250 MHz. Low conversion loss is obtained by the use of low loss ferrite transmission line networks whose superior balance contributes to the high isolation achieved.

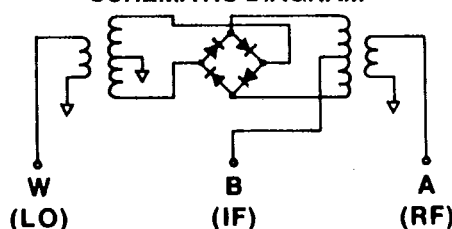
"Super-matched" Schottky barrier diode quads are assembled using a proprietary matching technique, thus ensuring ultimate balance and isolation. A variety of package styles is available, to suit most mounting applications. All PC units are hermetically sealed, and are leak tested prior to shipment.

PERFORMANCE DATA

PC VERSION		CONNECTOR VERSION		FULL FREQUENCY RANGE MHz		FREQ. RANGE MHz PORTS W AND A	CONV. LOSS (MAX.) dB (NOTE 3)	ISOLATION (MIN.) dB			LO POWER NOM. (NOTE 3)	1dB INPUT COMPRESSION LEVEL (NOTE 3)	3RD ORDER INTERCEPT POINT (NOTE 3)
MODEL	FIG. (NOTE 1)	MODEL	FIG. (NOTE 2)	PORTS W (LO) & A (RF)	PORT B (IF)			PORT W TO A	PORT W TO B	PORT A TO B			
FC-200R	1	FC-201R	11	0.2-500	DC-500	0.2-0.4	8.0	55	55	20	+7dBm	0dBm	+12dBm
						0.4-10	6.0	55	55	20			
						10-50	6.0	50	50	20			
						50-150	6.0	35	25	20			
						150-500	8.0	35	25	20			
FC-200W	1	FC-201W	11	0.2-600	DC-600	0.2-0.4	8.0	50	50	30	+7dBm	0dBm	+12dBm
						0.4-40	6.0	50	50	30			
						40-50	6.0	50	40	30			
						50-150	6.0	50	40	20			
						150-200	8.0	50	40	20			
						200-400	8.0	50	30	20			
FC-200Z	1	FC-201Z	11	2.0-1250	DC-1250	2.0-50	8.0	35	30	30	+7dBm	0dBm	+12dBm
						50-400	7.0	35	30	30			
						400-500	8.0	35	30	30			
						500-1000	8.0	30	30	25			
						1000-1250	8.0	25	25	20			

NOTES:

- The figure shown (Mixer Outline Drawings) is the standard case style. Alternate case styles, available on request, are Fig. 2, 3, 4, 7 and 8. To specify an alternate case style, add the figure number to the model designation (e.g., FC-200Z-7).
- The figure shown (Mixer Outline Drawings) is the standard case style. An alternate case style, available on request, is Fig. 12. To specify this style, add -12 to the model designation (e.g., FC-201R-12).
- See "Performance Notes".

SCHEMATIC DIAGRAM**GENERAL SPECIFICATIONS**

The mixers are designed and constructed to meet or exceed the requirement of MIL-E-5400 & MIL-E-16400. Hi Rel programs are also available. All products are designed and constructed to meet or exceed the following environmental and physical conditions of MIL-STD-202.

Thermal Shock	Method 107D Test Condition A -55°C to +85°C, 30 minutes at each extreme
Vibration	Method 204 Test Condition B 10-2000 Hz 15G Peak
Moisture Resistance	Method 106D
Humidity	Method 103B Test Condition B
Solderability	Method 208
Resistance to Solvents	Method 215
Seal (Gross Leak) (PC versions only)	Method 112B Test Condition D 10 ⁻⁵ ATM cc/sec
Impedance	For use in a 50 Ohm system
LO Power	Mixers should be operated at nominal LO power, with a tolerance of +4dB, -2dB. LO power should not exceed the nominal value shown by more than 6dB.
Polarity	With ports A and W in phase, dc at port B is negative with respect to ground.
DC Current, Any Port	40mA max.
Connectors	BNC standard SMA or TNC available

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