

PLUG-IN DOUBLE-BALANCED MIXER

200 kHz-200 MHz

- Three Decade Coverage
- All Internal Connections Accessible

Guaranteed Specifications* (From -55°C to +85°C)

Frequency Range:

RF, LO Ports	0.2-200 MHz
IF Port	DC-200 MHz

Conversion Loss:

0.2-50 MHz	6.0 dB Max
50-200 MHz	7.5 dB Max

Isolation:

LO to RF (0.2-50 MHz)	35 dB Min
(50-200 MHz)	30 dB Min
LO to IF (0.2-50 MHz)	35 dB Min
(50-200 MHz)	25 dB Min
RF to IF (0.2-50 MHz)	25 dB Min
(50-200 MHz)	20 dB Min

Operating Characteristics

Impedance: 50 Ohms Nominal

Maximum Input:

Total Power	400 mW Max @ 25°C
	Derated linearly to 85°C
	@ 3.2 mw/°C
X Port Current	50 mA Max

DC Polarity: Negative
(When connected as indicated under Mech. Data)

DC Offset: 3 mV Typical

RF Input:

1 dB Compression	+2 dBm Typical
1 dB Desensitization	0 dBm Typical
	@ RF = 100 MHz

SSB Noise Figure: Within 1 dB of Conversion Loss

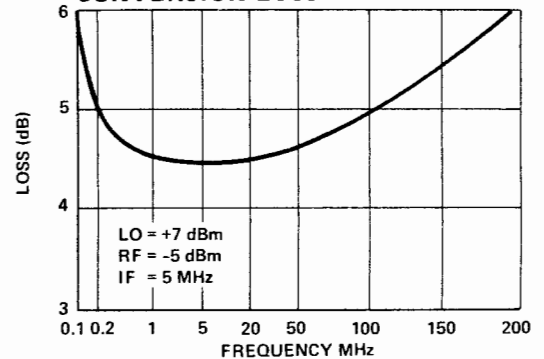
Typical Two-Tone IM Ratio:

(with -10 dBm input, each input, 25 MHz and 35 MHz IF)	100-200 MHz ≥ 50 dB
	200-300 MHz ≥ 36 dB

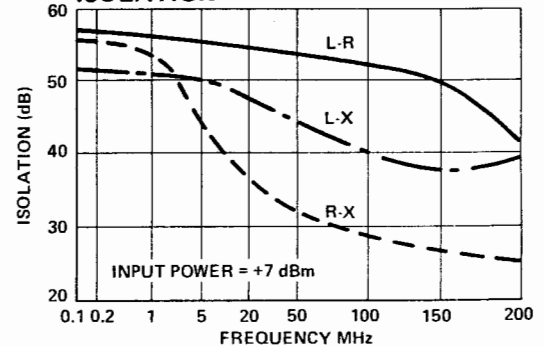
*All specifications apply when operated at +7 dBm available LO power with 50 ohm source and load impedance.

Typical Performance

CONVERSION LOSS



ISOLATION



CONVERSION LOSS VS LO POWER

