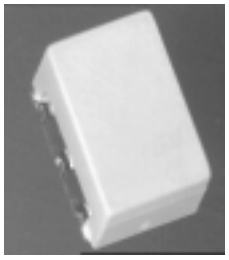
AMP M/A-COM

E-Series Surface Mount Mixer
350 – 2000 MHz

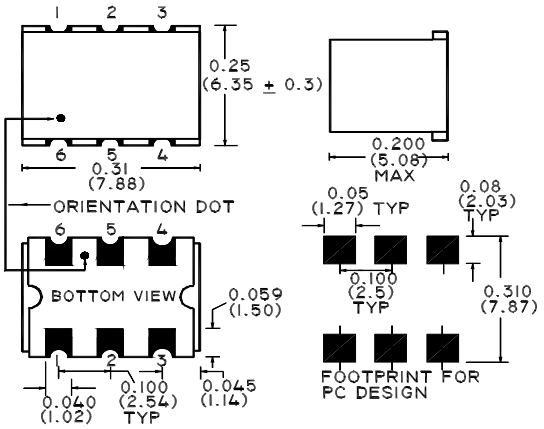
Features

- LO Power +7 dBm
- Up to +1 dBm RF
- Surface Mount



SM-87 Package

Note: Non Hermetic Package



Description

M/A-COM's ELCM-11F is a Low Cost, Broadband, high performance Double Balanced Mixer designed for use in high volume wireless applications. The device has been optimised by careful selection of the Schottky Diode and Balun Transformer for excellent performance. ELCM-11F is available in an SM-87 surface mount package and reflows using standard soldering reflow profiles.

Electrical Specifications @ +25°C, Z_0 = 50 Ohms, LO = +7dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 350 - 2000	MHz	—	—	—
LO 350 - 2000	MHz	—	—	—
IF DC - 400	MHz	—	—	—
Conversion Loss				
350 - 1000	dB	—	5.5	7.0
350 - 2000	dB	—	6.8	9.2
Isolation (LO - RF)				
350 - 750	MHz	26	37	—
750 - 1000	MHz	20	36	—
1000 - 2000	MHz	20	32	—
Isolation (LO - IF)				
350 - 750	MHz	14	22	—
750 - 1000	MHz	20	29	—
1000 - 2000	MHz	20	28	—
RF Input for 1dB Compression	dBm	—	—	+1

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Absolute Maximum Ratings

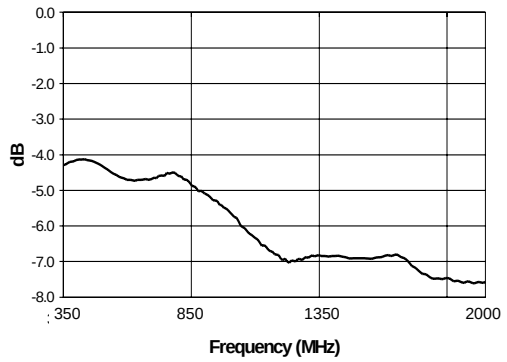
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-55°C to +100°C
Pin Temperature (10 Seconds)	260°C

Functional Configuration

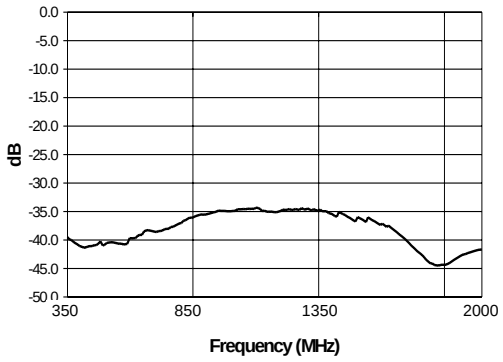
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

Typical Performance @ +25°C

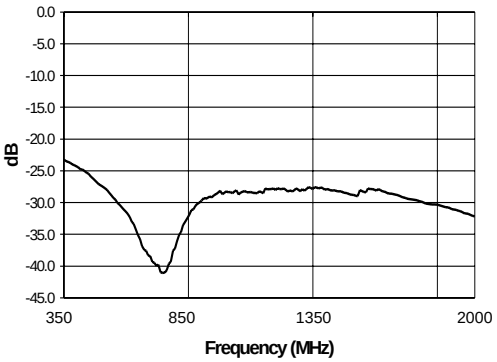
Conversion Loss



L-R Isolation



L-I Isolation



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