



E-Series Surface Mount Mixer 5 – 1000 MHz



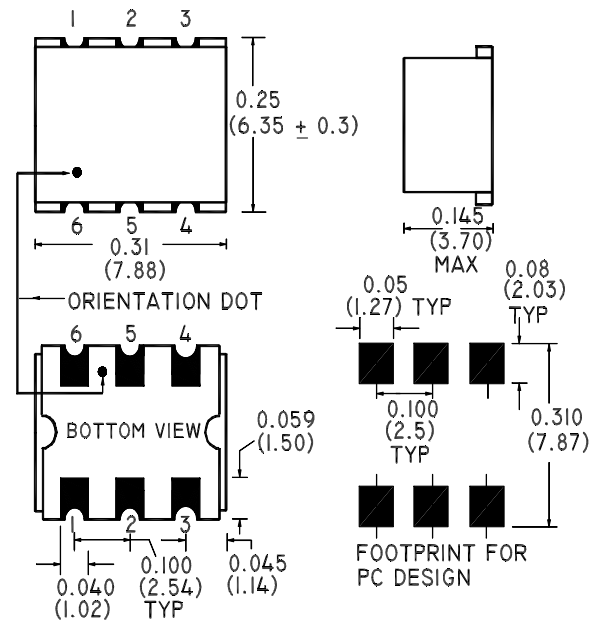
Features

- LO Power +10 dBm
- Up to +5 dBm RF
- Surface Mount
- Low Profile



SM-89 Package

Note: Non Hermetic Package



Description

M/A-COM's ELCM-2LH 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-2LH is available in an SM-89 surface mount package and reflows using standard soldering reflow profiles.

Electrical Specifications @ +25°C, Z₀ = 50 Ohms, LO = +10dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 5 - 1000	MHz	—	—	—
LO 5 - 1000	MHz	—	—	—
Conversion Loss				
5 - 500	dB	—	6.5	7.5
Isolation (LO - RF)				
5 - 50	MHz	40	45	—
50 - 500	MHz	30	35	—
Isolation (LO - IF)				
5 - 50	MHz	40	55	—
50 - 500	MHz	30	35	—



Absolute Maximum Ratings

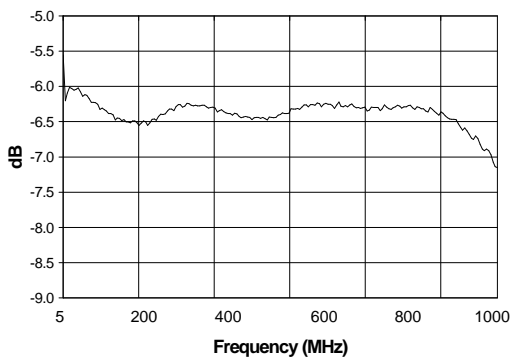
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-55°C to +100°C

Functional Configuration

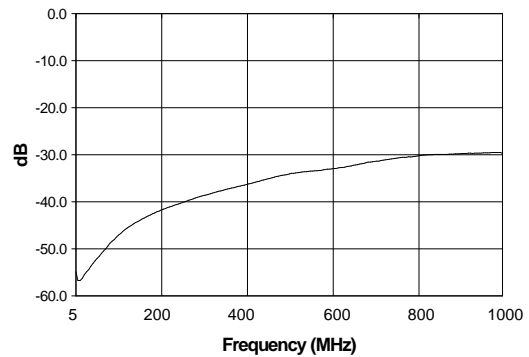
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

Typical Performance @ +25°C

Conversion Loss



L-R Isolation



L-I Isolation

