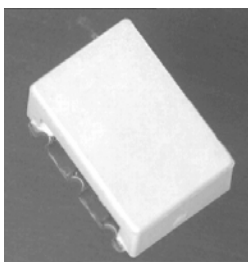


E-Series Surface Mount Mixer 5 – 1000 MHz

Features

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

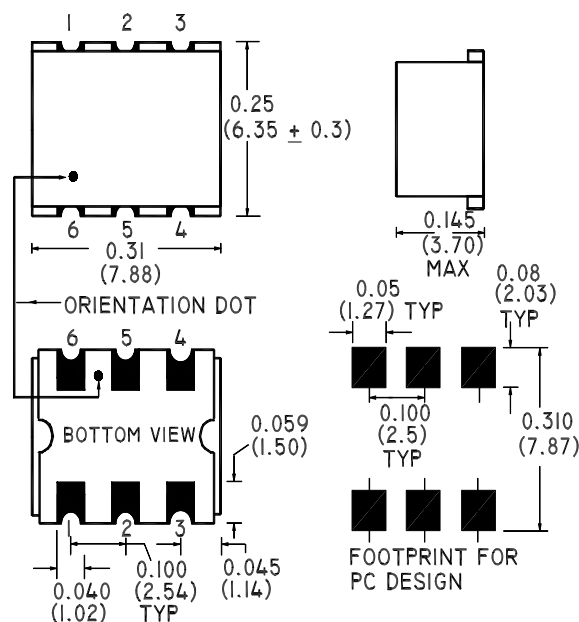


Description

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

SM-89 Package

Note: Non Hermetic Package



Electrical Specifications @ +25°C, Z₀ = 50 Ohms, LO = +7dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 5 - 1000	MHz	—	—	—
LO 5 - 1000	MHz	—	—	—
IF DC - 1000	MHz	—	—	—
Conversion Loss				
10 - 500	dB	—	6.5	8.0
5 - 1000	dB	—	7.0	9.5
Isolation (LO - RF)				
5 - 300	MHz	40	50	—
300 - 500	MHz	20	40	—
500 - 1000	MHz	18	25	—
Isolation (LO - IF)				
5 - 50	MHz	45	55	—
50 - 500	MHz	20	30	—
500 - 1000	MHz	12	20	—
RF Input for 1dB Compression	dBm	—	—	+1

V3.00 S 1352

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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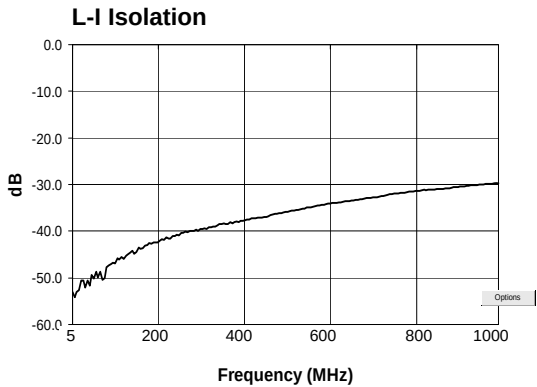
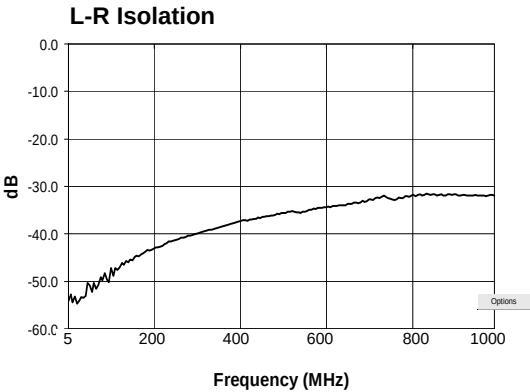
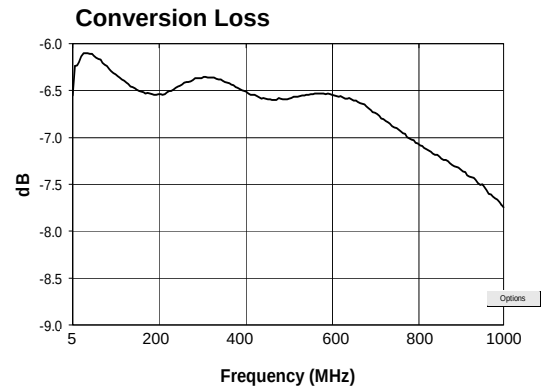
Absolute Maximum Ratings

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



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