

# E-Series Surface Mount Mixer

## 5 – 1900 MHz



### Features

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

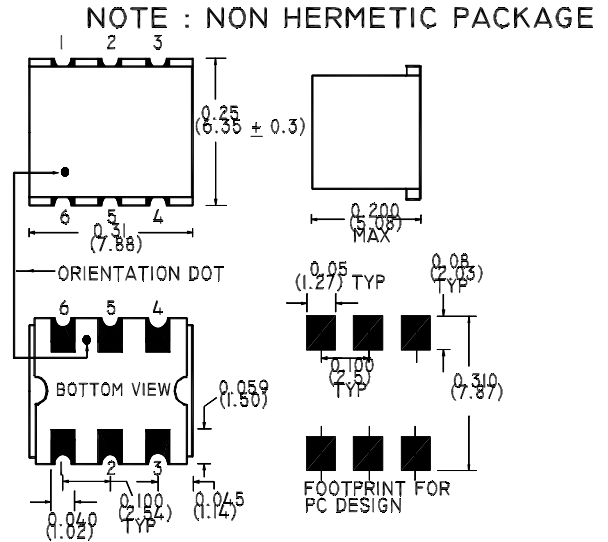


### Description

M/A-COM's MAMXES0001 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. MAMXES0001 is available in an SM-87 surface mount package and reflows using standard soldering reflow profiles.

### SM-87 Package

Note: Non Hermetic Package



### Electrical Specifications @ +25°C, Z<sub>0</sub> = 50 Ohms, LO = +7dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF	5 - 1900	—	—	—
LO	5 - 1900	—	—	—
IF	5 - 1000	—	—	—
Conversion Loss				
10 - 950	dB	—	7.2	8.0
5 - 1900	dB	—	7.4	9.8
Isolation (LO - RF)				
5 - 50	MHz	45	50	—
50 - 950	MHz	25	37	—
950 - 1900	MHz	25	30	—
Isolation (LO - IF)				
5 - 50	MHz	45	56	—
50 - 950	MHz	25	40	—
950 - 1900	MHz	25	29	—
RF Input for 1dB Compression	dBm	—	—	+1

S 1405 B



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M/A-COM ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel.+85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

Specifications subject to change without notice.

**Absolute Maximum Ratings**

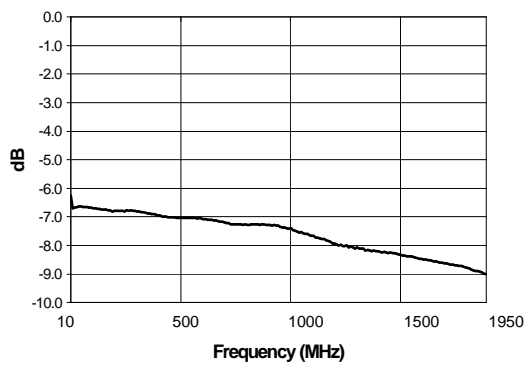
Parameter	Absolute Maximum
RF Power	150 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-55°C to +100°C
Pin Temperature (10 Seconds)	260°C

**Functional Configuration**

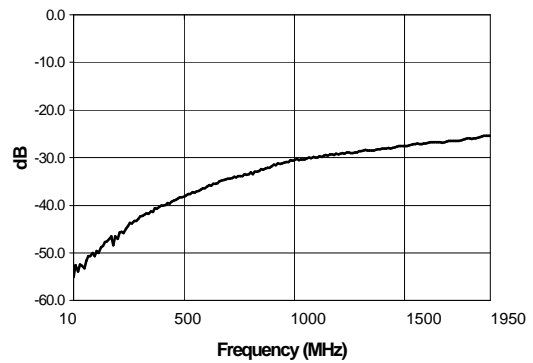
Function	Pin No.
LO	1
RF	5
IF	4
Ground	2, 3, 6
Case Ground	—
Unconnected	—

**Typical Performance @ +25°C**

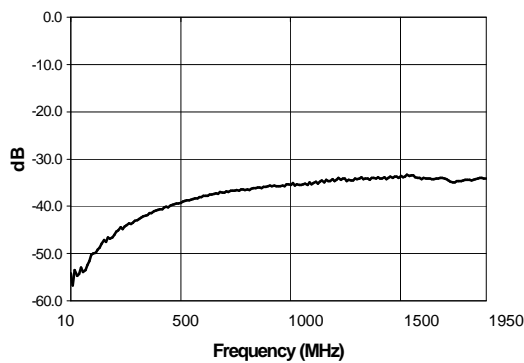
**Conversion Loss**



**L-R Isolation**



**L-X Isolation**



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