

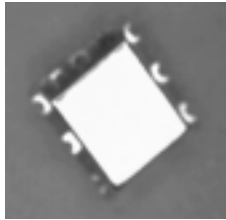


# E-Series Surface Mount Mixer

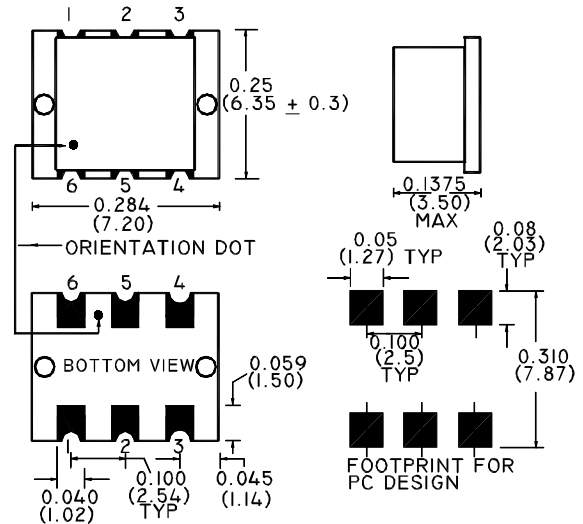
## 0.5 – 500 MHz

### Features

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



### SM-134 Package



### Description

M/A-COM's MAMXES0022 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. MAMXES0022 is available in an SM-134 surface mount package and reflows using standard soldering reflow profiles.

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

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF	0.5 - 500	MHz	—	—
LO	0.5 - 500	MHz	—	—
IF	DC -500	MHz	—	—
Conversion Loss	0.5 - 500	MHz	—	6.5
Isolation (LO-RF)				
0.5 - 5	MHz	50	55	—
5 -250	MHz	35	45	—
250 -500	MHz	25	30	—
Isolation (LO-IF)				
0.5 - 5	MHz	45	55	—
5 -250	MHz	35	45	—
250 -500	MHz	25	30	—
RF Input for 1dB Compression	dBm	—	—	+ <sub>1</sub>

**Absolute Maximum Ratings**

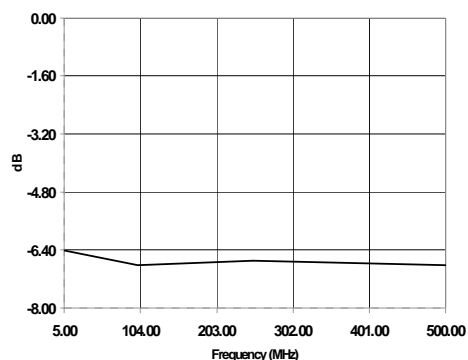
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-55°C to +100°C
Pin Temperature (10 Seconds)	260°C

**Functional Configuration**

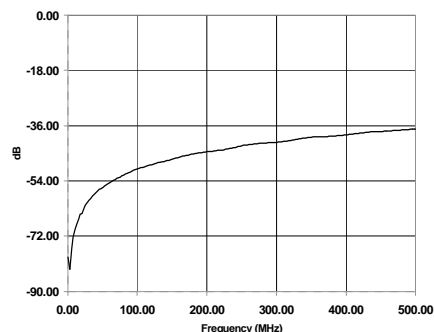
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

**Typical Performance @ +25°C**

**Conversion Loss**



**L-R Isolation**



**L-I Isolation**

