

## E-Series Surface Mount Mixer 2 – 500 MHz

MAMX-007674-LCM1MH  
V1 P

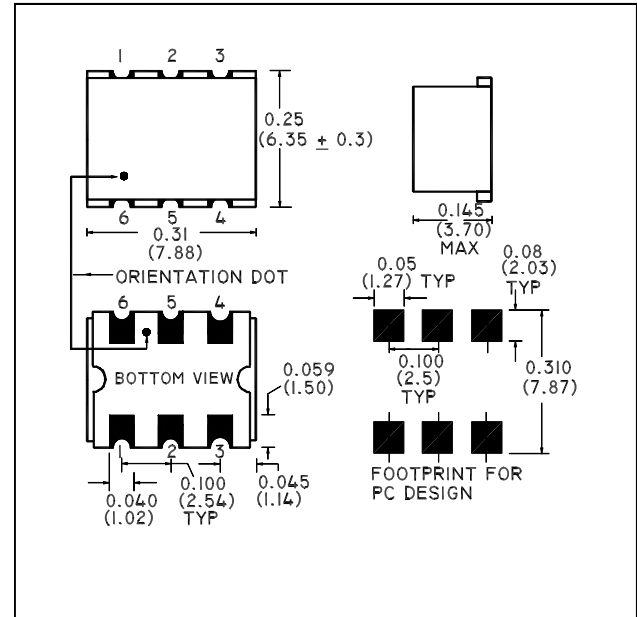
### Features

- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant version of the ELCM-1MH

### Description

M/A-COM's MAMX-007674-LCM1MH is a RoHS Compliant 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. MAMX-007674-LCM1MH is available in an SM-89 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles. Parts are packaged in tape & reel.

### SM - 89 Package



### Ordering Information

Part Number	Package
MAMX-007674-LCM1MH	Tape and Reel (900 piece Reel)

### Absolute Maximum Ratings <sup>1</sup>

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +125°C
Pin Temperature (10 seconds)	+260°C

1. Exceeding any one or combination of these limits may cause permanent damage to this device.

### Pin Configuration

Pin No.	Function
1	LO
2	Ground
3	Ground
4	RF
5	IF
6	Ground

**This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.**

\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

# RoHS Compliant



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**2 – 500 MHz**

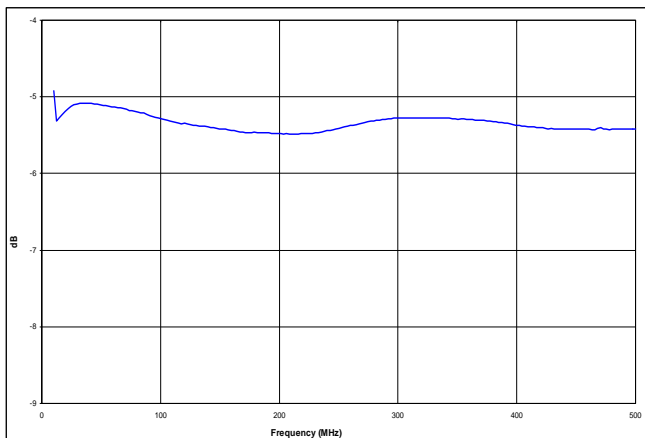
**MAMX-007674-LCM1MH**  
**V1 P**

**Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$ <sup>1</sup>, LO = +13 dBm**

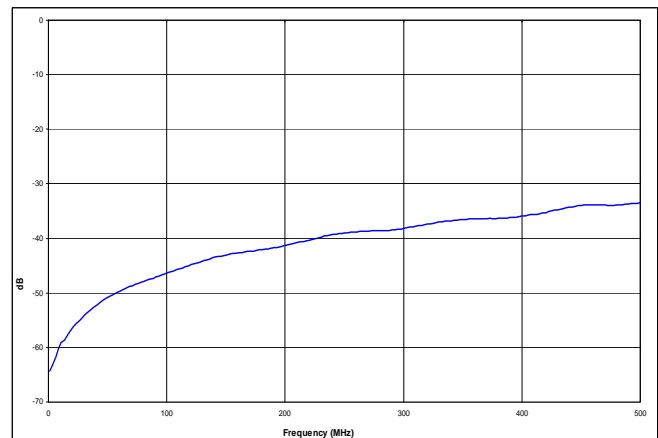
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	2 - 500	MHz	—	—	—
LO Frequency	—	2 - 500	MHz	—	—	—
IF Frequency	—	DC - 500	MHz	—	—	—
Conversion Loss	—	2 - 250	dB	—	5.5	7.0
		250 - 500	dB	—	6.0	8.0
Isolation	LO to RF	2 - 20	dB	45	55	—
		20 - 250	dB	30	44	—
		250 - 500	dB	25	30	—
Isolation	LO to IF	2 - 20	dB	40	55	—
		20 - 250	dB	25	35	—
		250 - 500	dB	25	29	—
Input 1 dB Compression	—	0.5 - 500	dBm	—	—	9

## Typical Performance Curves

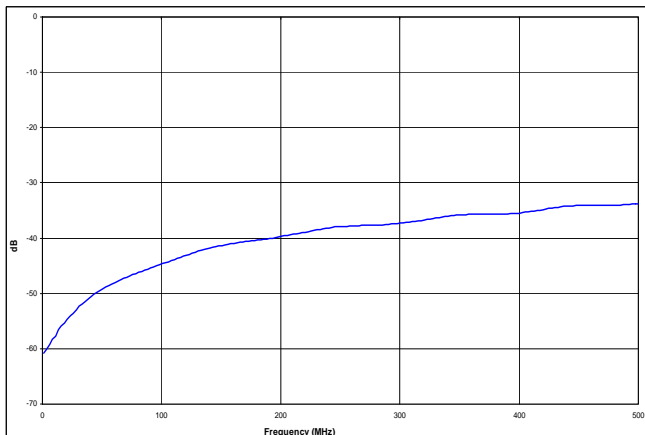
### Conversion Loss



### LO - RF Isolation



### LO - IF Isolation



2

**ADVANCED:** Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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