



MAMX-007674-LCM1MH

E-Series Surface Mount Mixer $2 - 500 \, MHz$

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.

Ordering Information

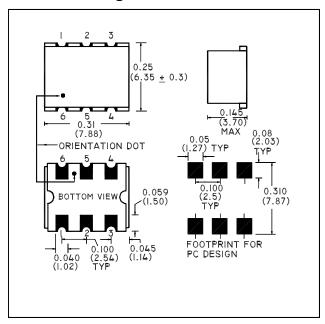
Part Number	Package
MAMX-007674-LCM1MH	Tape and Reel (900 piece Reel)

Absolute Maximum Ratings 1

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.

SM - 89 Package



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.

- India Tel: +91.80.4155721
- China Tel: +86.21.2407.1588





MAMX-007674-LCM1MH

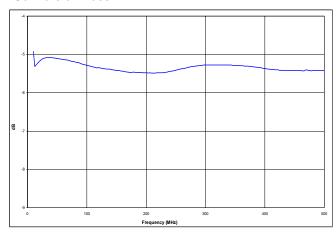
E-Series Surface Mount Mixer 2 - 500 MHz

Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega^{-1}$, LO = +13 dBm

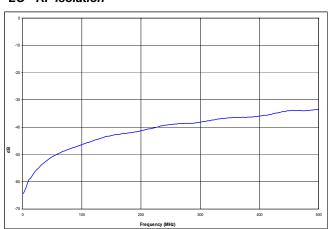
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	-	2 - 500	MHz	_	_	_
LO Frequency	_	2 - 500	MHz	_	_	_
IF Frequency	_	DC - 500	MHz	_	_	_
Conversion Loss	_	2 - 250 250 - 500	dB dB	_	5.5 6.0	7.0 8.0
Isolation	LO to RF	2 - 20 20 - 250 250 - 500	dB dB dB	45 30 25	55 44 30	
Isolation	LO to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

Typical Performance Curves

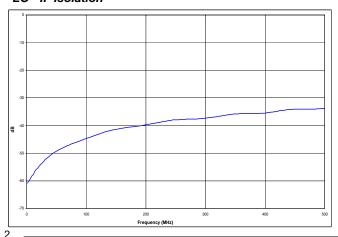
Conversion Loss



LO - RF Isolation



LO - IF Isolation



- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
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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.

Visit www.macomtech.com for additional data sheets and product information.