

RoHS Compliant



MAMX-007607-ELCM1H V1 P

E-Series Surface Mount Mixer 0.5 – 500 MHz

Features

- LO Power +17 dBm
- Up to +14 dBm RF
- Low Profile
- Surface Mount
- · Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant version of the ELCM-1HTR

Description

M/A-COM's MAMX-007607-ELCM1H is a RoHS Compliant Low Cost, Broadband, high performance Double Balanced Mixer designed for use in high volume wireless applications. The device has been optimized by careful selection of the Schottky Diode and Balun Transformer for excellent performance. The MAMX-007607-ELCM1H is available in an SM-87 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

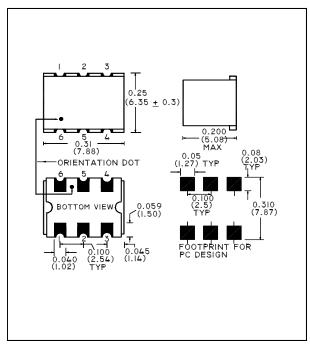
Part Number		Package		
	MAMX-007607-ELCM1H	Tape and Reel (900 piece Reel)		

Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum		
RF Power	200 mW		
Peak IF Current	40 mA		
Operating Temperature	-55°C to +85°C		
Storage Temperature	-65°C to +125°C		

- 1. Exceeding any one or combination of these limits may cause permanent damage to this device.
- M/A-COM does not recommend sustained operation near these survivability limits.

SM - 87 Package



Pin Configuration

Pin No.	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.

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

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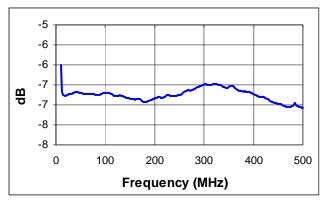
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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$, LO = +17 dBm

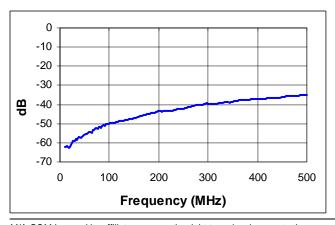
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	-	0.5 - 500	MHz	_	_	_
LO Frequency	_	0.5 - 500	MHz	_	_	_
IF Frequency	-	DC - 500	MHz	_	_	_
Conversion Loss	_	1 - 250 250 - 500	dB dB		6.8 7.2	7.5 8.0
Isolation	LO to RF	0.5 - 5 5 - 250 250 - 500	dB dB	50 35 30	55 40 35	_
Isolation	LO to IF	0.5 - 5 5 - 250 250 - 500	dB dB dB	45 30 27	55 35 35	_ _ _
Input 1 dB Compression	_	0.5 - 500	dBm	_	_	14

Typical Performance Curves

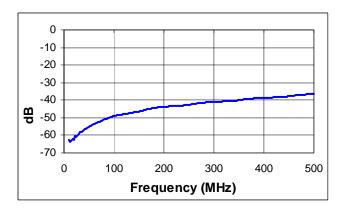
Conversion Loss



LO - IF Isolation



LO - RF Isolation



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