

### Features

- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount
- Tape and reel packaging
- 260°C Reflow Compatible
- RoHS\* compliant version of the ELCM-25MH

### Description

M/A-COM Technology Solutions part number MAMX-007238-CM25MH 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.

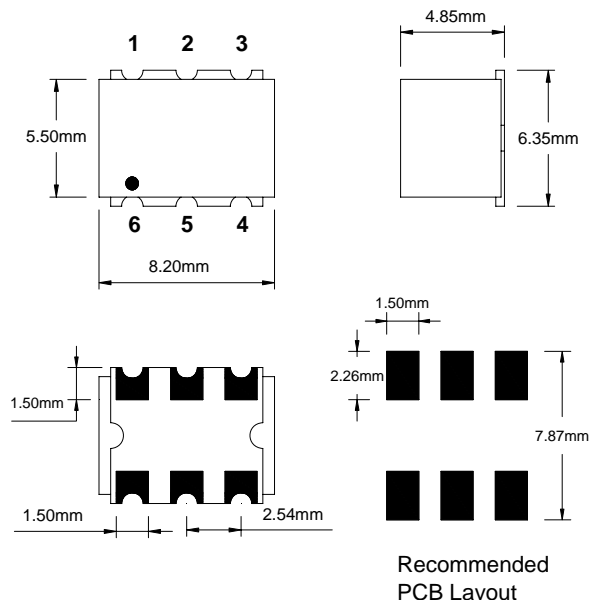
The MAMX-007238-CM25MH is in a surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles.



### Pin Configuration

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

### Component Dimensions



Dimensions in mm, Tolerance: .xx ± 0.3 , unless otherwise stated. Drawing not to scale.

### Recommended Maximum Ratings<sup>1,2</sup>

Parameter	Value
RF Power	150 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.
2. M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.

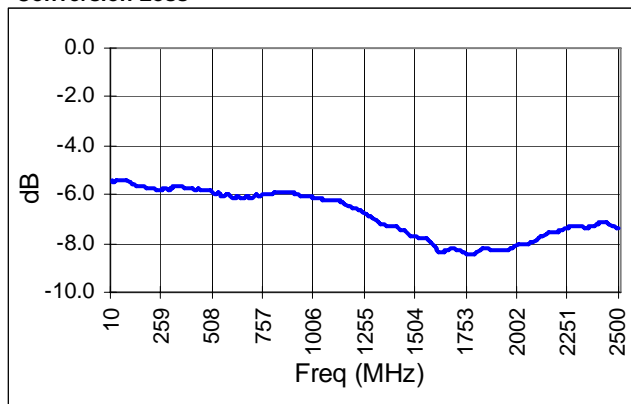
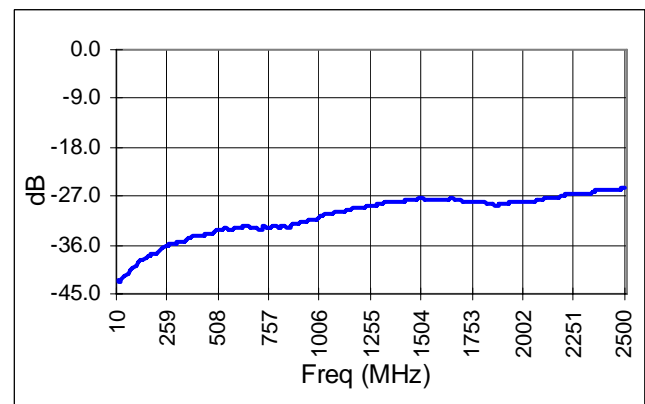
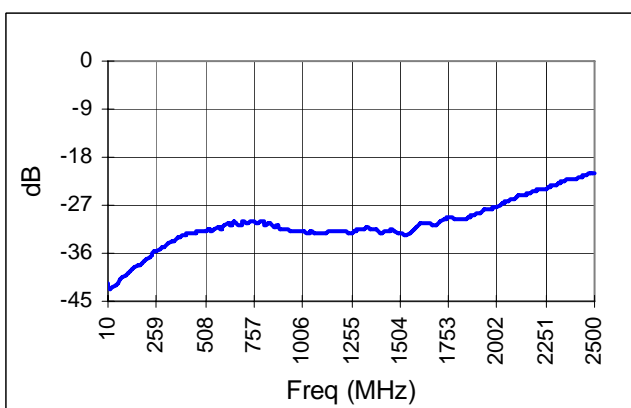
\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

**E-Series Surface Mount Mixer**  
**5-2500 MHz**

Rev. V5

**Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\ \Omega$ , LO = +7dBm**

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	5 - 2500	MHz	—	—	—
LO Frequency	—	5 - 2500	MHz	—	—	—
IF Frequency	—	5 - 1500	MHz	—	—	—
Conversion Loss	—	10 - 1250 5 - 2500	dB dB	— —	6.3 7.3	8.5 9.8
Isolation	LO to RF	5 - 50 50 - 1250 1250 - 2500	dB dB dB	28 23 20	45 35 30	— — —
Isolation	LO to IF	5 - 50 50 - 1250 1250 - 2500	dB dB dB	23 20 17	40 30 25	— — —
Input 1 dB Compression	—	5 - 2500	dBm	—	—	9

**Typical Performance Curves @ +25°C**
**Conversion Loss**

**LO - RF Isolation**

**LO - IF Isolation**


**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.

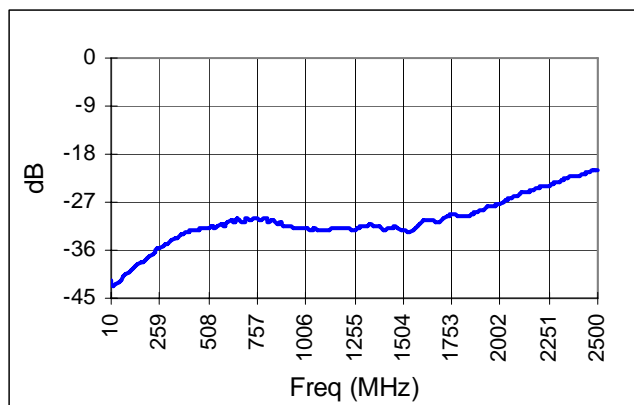
**PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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 Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

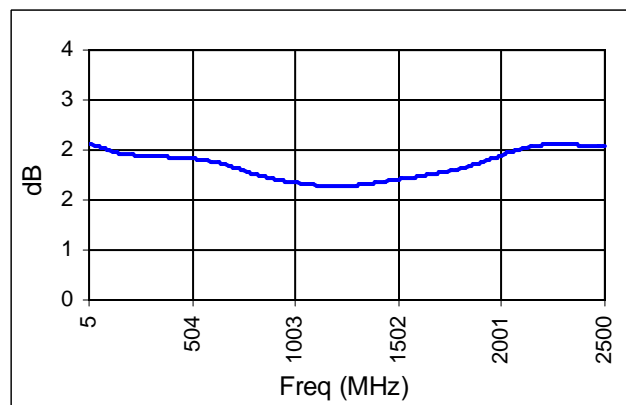
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## Typical Performance Curves @ +25°C

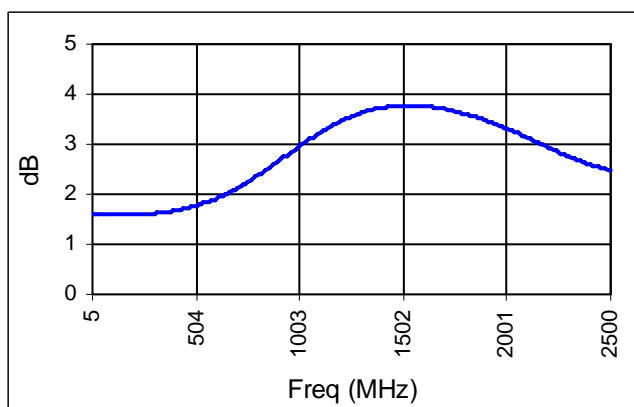
**LO - IF Isolation**



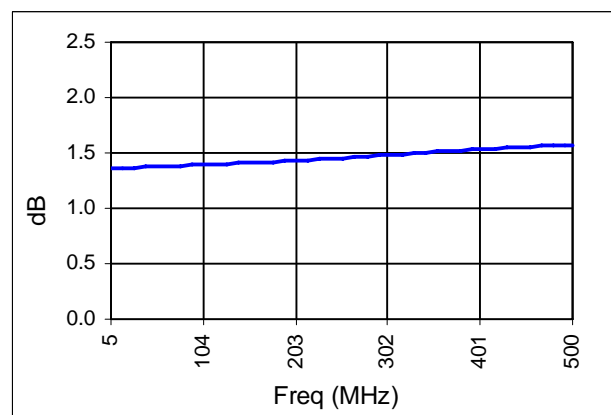
**LO VSWR**



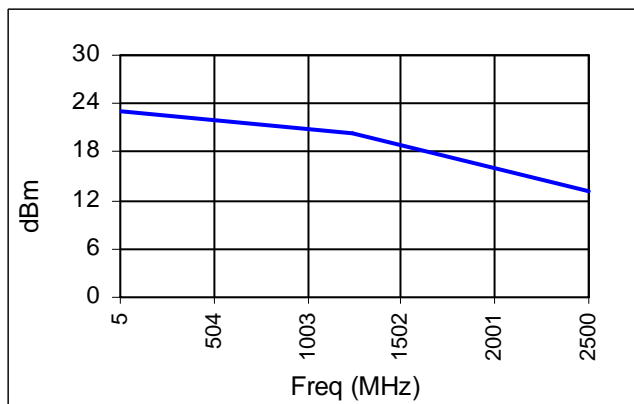
**RF VSWR**



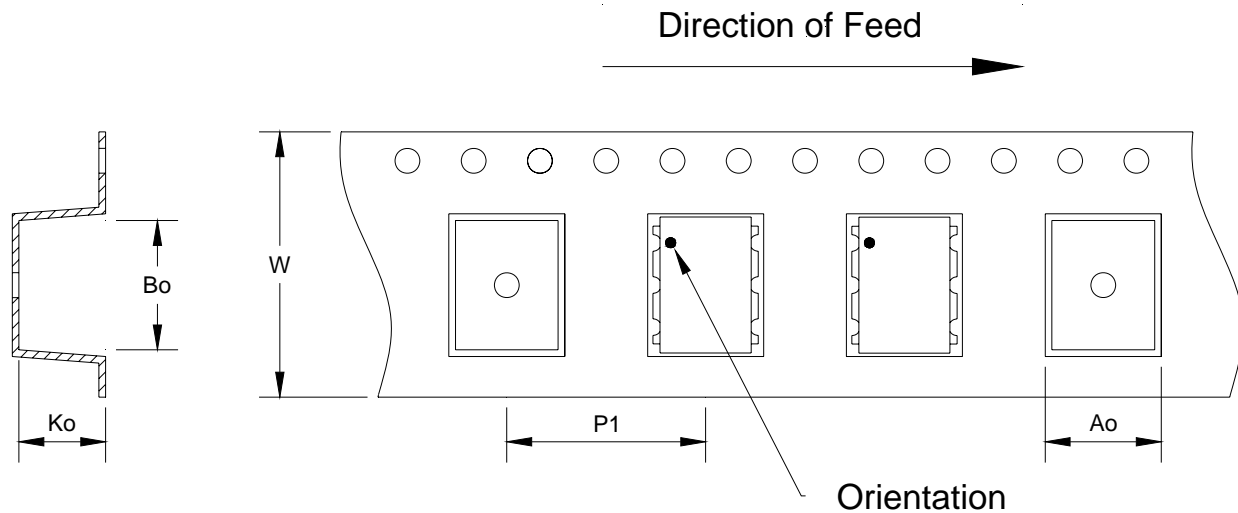
**IF VSWR**



**IP3**



## Tape & Reel Information



Item	Dimension
Ao	7.00mm +/- 0.1mm
Bo	8.60mm +/- 0.1mm
Ko	5.23mm +/- 0.1mm
W	16.00mm +/- 0.3mm
P1	12.00mm +/- 0.1mm

## Ordering Information

Part Number	Package
MAMX-007238-CM25MH	Tape and Reel 900 pieces

# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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