MAMX-009722-25MHLP



E-Series Surface Mount Mixer 30-512 MHz

M/A-COM Products Advanced - Rev. V1

Features

- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Description

M/A-COM's MAMX-009722-25MHLP is a RoHS Compliant Low Cost, Broadband, high performance Double 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-009722-25MHLP 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-009722-25MHLP	Tape and Reel (900 piece Reel)

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	30 - 512	MHz	_	_	_
LO Frequency	_	1256.85 - 1738.85	MHz	_	_	_
IF Frequency	_	1226.85	MHz	_	_	_
Conversion Loss	_	30 - 512	dB	_	7.5	9
Isolation	LO to RF	1256.85-1738.85	dB	30	45	_
Isolation	LO to IF	1256.85-1738.85	dB	23	26	_
Input 1 dB Compression	_	30 - 512	dBm	_	_	9

Product Image





Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum		
RF Power	150 mW		
Peak IF Current	40 mA		
Operating Temperature	-55°C to +85°C		
Storage Temperature	-65°C to +125°C		

Pin Configuration

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

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

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 containing information regarding a product MA-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. M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make

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

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^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

MAMX-009722-25MHLP

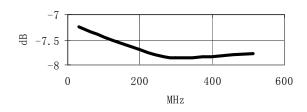


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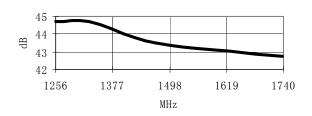
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Typical Performance Curves at +25°C

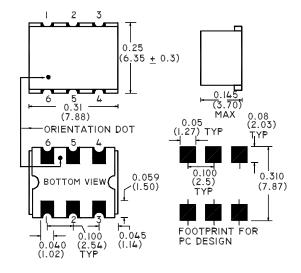
Conversion Loss



Isolation LO-RF

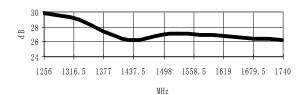


SM - 89 Package



* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

Isolation LO-IF



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