

Features

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

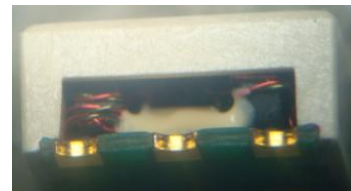
Description

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)

Product Image



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

Parameter	Test Conditions	Frequency	Units	Min	Typ	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

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

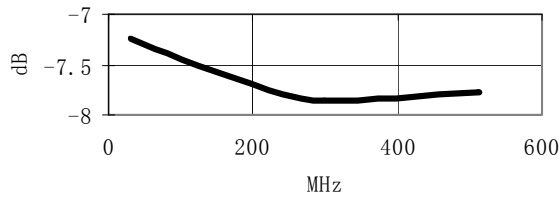
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

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

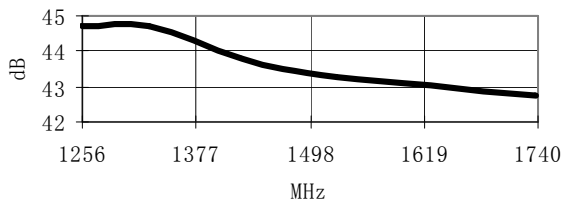
Typical Performance Curves at +25°C

SM - 89 Package

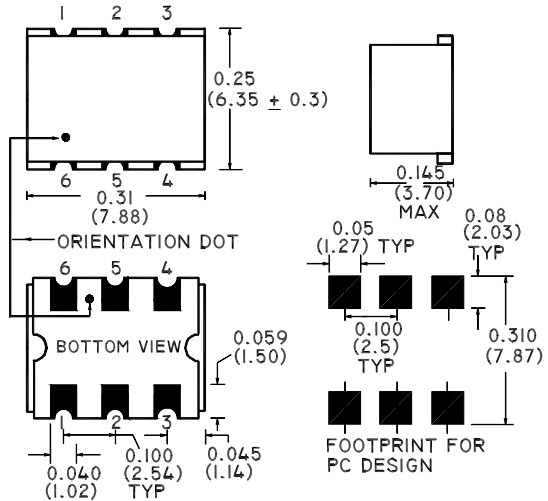
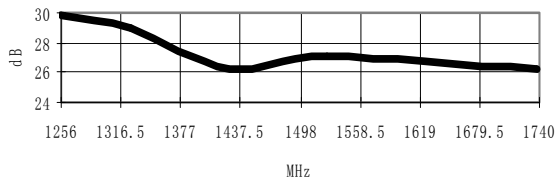
Conversion Loss



Isolation LO-RF



Isolation LO-IF



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