MAMX-009239-001500



E-Series Surface Mount Mixer 10 - 2500 MHz

Rev. V1

Features

- LO Power +17 dBm
- Up to +13 dBm RF
- Surface Mount
- Wide Frequency Band
- RoHS* Compliant
- Tape and reel packaging

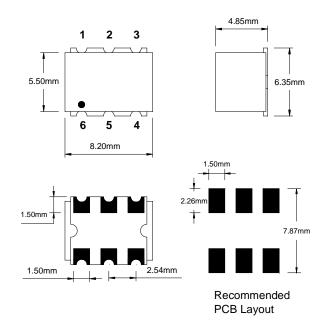
Description

M/A-COM Technology Solutions MAMX-009239-001500 is a Low Cost, High Drive, surface mount Mixer designed for use in high volume wireless applications.

The MAMX-009239-001500 mixer is offered in a surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles.



Component Dimensions



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

Pin Configuration

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

Recommended Maximum Ratings 1,2

Parameter	Value
Max RF Power	50 mW
Peak IF Current	40 mA
Pin Temperature (10 seconds)	260°C
Operating Temperature	-10℃ to +85℃
Storage Temperature	-55℃ to +125℃

- 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.

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.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.43537383
- China Tel: +86.21.2407.1588

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

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

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

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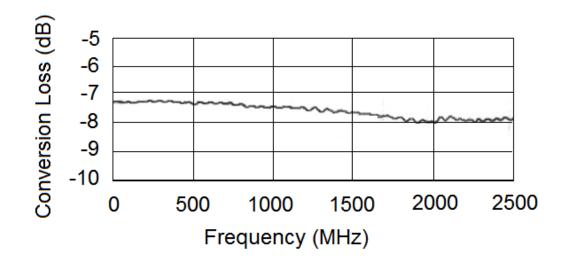
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Electrical Specifications: T_A = 25℃, Z₀ = 50 Ohms, LO = +17dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	RF LO	10 - 2500 10 - 2500	MHz MHz	_	_	_
	IF	10 - 2500	MHz	_	_	—
Conversion Loss	Low Range	10 - 1250	dB		5.5	7
	Upper Range	1250-2500	dB		7.6	9
LO-IF Isolation	Low Range	10 - 1250	dB	30	40	
	Upper Range	1250-2500	dB	23	30	
LO-RF Isolation	Low Range	10 - 1250	dB	35	40	
	Upper Range	1250-2500	dB	23	35	
IIP3		10 - 2500	dBm	23	25	31
RF Input for 1 dB Compression			dBm			+13

Typical Performance Curves @ +25℃



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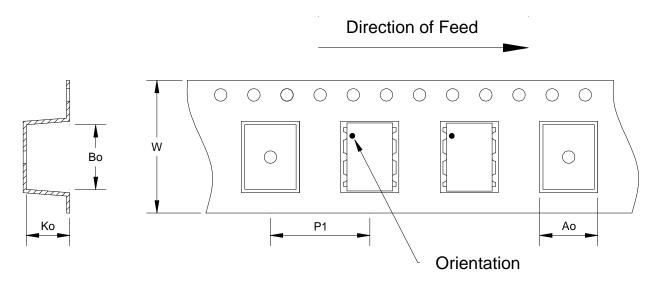
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Tape & Reel Information



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

Ordering Information

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Part Number	Package
MAMX-009239-001500	Tape and Reel 900 pieces

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