

E-Series Surface Mount Mixer

5 – 1500 MHz

MAMX-007247-MRS5MH
V1P

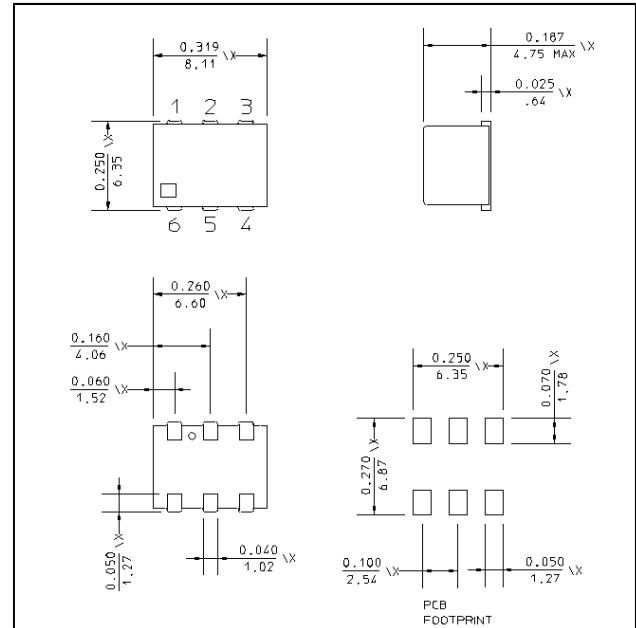
Features

- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount
- RoHS* Compliant version of the EMRS-5MH
- Tape and reel packaging available

Description

M/A-COM's MAMX-007247-MRS5MH is a RoHS compliant Low Cost, medium Drive, surface mount Mixer designed for use in high volume wireless applications. The MAMX-007247-MRS5MH mixer is offered in an SM-1 surface mount package. The mixer is designed to be utilized in both standard reflow and high temperature soldering reflow profiles. Parts are packaged in tape & reel.

SM-1 Package



Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$ ¹

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	DC bias 5V ± 0.3V	5 - 1500	MHz	—	—	—
LO Frequency	DC bias 5V ± 0.3V	5 - 1500	MHz	—	—	—
IF Frequency	DC bias 5V ± 0.3V	DC - 1000	MHz	—	—	—
Conversion Loss	—	10 - 750 5 - 1500	dB dB	-	6.5 7.5	7.5 9.5
Isolation	LO to RF	5 - 50 50 - 750 750 - 1500	dB	40 20 18	60 40 30	—
Isolation	LO to IF	5 - 50 50 - 750 750 - 1500	dB	30 18 8	55 30 15	—
Input 1dB Compression	—	810 - 1000	dBm	—	9.0	—

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.

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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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Pin Configuration

Pin No.	Function
1	LO I/P
2	Ground
3	Ground
4	RF O/P
5	IF I/P
6	Ground

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
RF Power	150 mW
Peak IF Current	40 mA
Pin Temperature (10 seconds)	260° C
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

1. Operation of this device above any one of these parameters may cause permanent damage.

Ordering Information

Part Number	Package
MAMX-007247-MRS5MH	Tape and Reel (900 pieces/ Reel)