

# E-Series Surface Mount Mixer

## 880 – 915 MHz

**MAMXES0071**



### Features

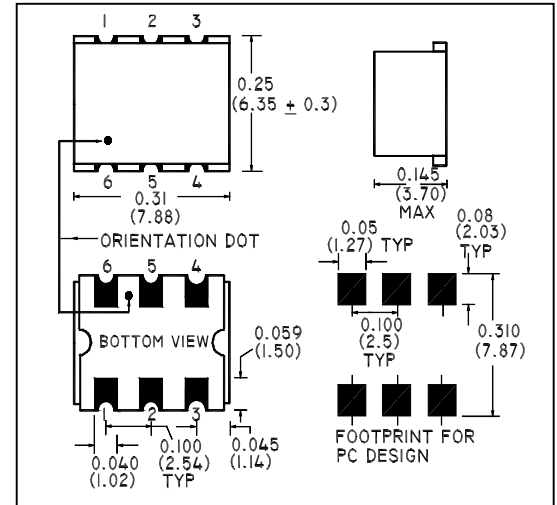
- LO Power +17 dBm
- Up to +1 dBm RF
- Surface Mount
- Low Profile

### Description

M/A-COM's MAMXES0071 is a Low Cost, Broadband, high performance Double Balanced Mixer designed for use in high volume wireless applications. The device has been optimised by careful selection of the Schottky Diode and Balun Transformer for excellent performance.

MAMXES0071 is available in an SM-89 surface mount package and reflows using standard soldering

### Functional Schematic SM-89



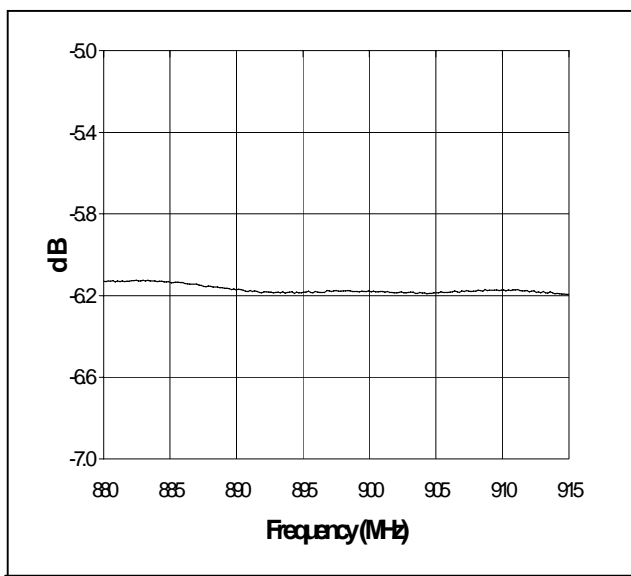
### Electrical Specifications @ 25°C, Z<sub>o</sub> = 50 Ω, LO = +17dBm

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Frequency Range					
RF	880 - 915	MHz	—	—	—
LO	1030 - 1085	MHz	—	—	—
IF	150 - 170	MHz	—	—	—
Conversion loss	880 – 915 MHz	dB	—	7.0	8.0
LO – RF Isolation	1030 – 1085 MHz	dB	20	25	—
LO – IF Isolation	1030 – 1085 MHz	dB	25	30	—
IP3 (INPUT)	880 – 915 MHz	dBm	20	23	—
RF Return Loss	880 – 915 MHz	dB	10	20	—
Input 1dB Compression point	880 – 915 MHz	dBm	12	14	—

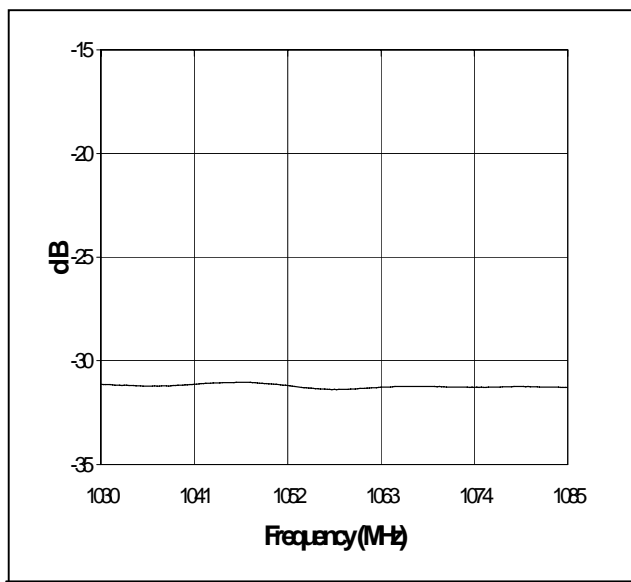
Note: Specifications subject to change without notice.

Typical Performance @ +25° C

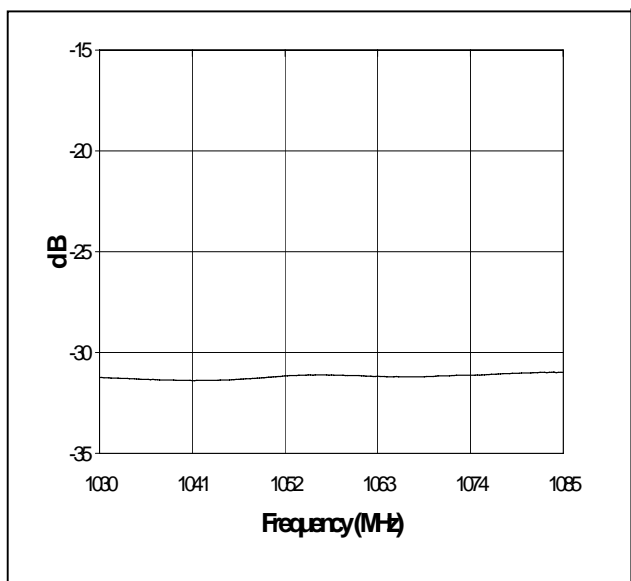
Conversion Loss



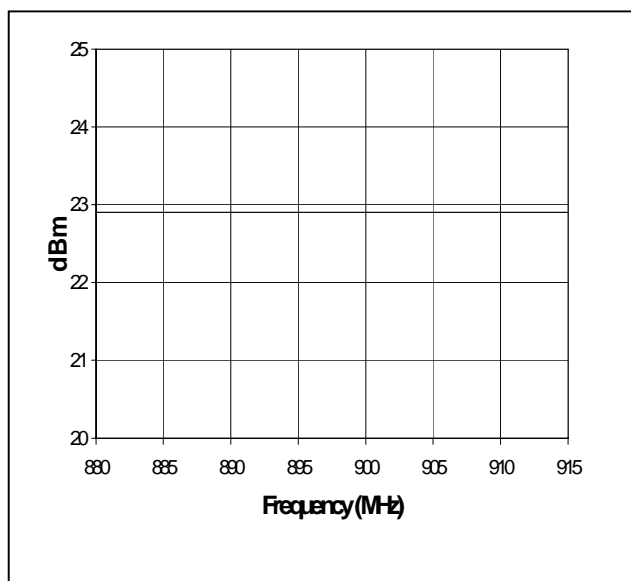
L - R Isolation



L - I Isolation



INPUT IP3



V1.01

Specifications subject to change without notice.

- North America: Tel. (800) 366-2266, Fax (800) 618-8883
- Asia/Pacific: Tel.+81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

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



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-40°C to +85° C
Operating Temperature	-40°C to +85° C
Pin Temperature (10 Seconds)	260° C

### Functional Configuration

Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	-
Unconnected	-

V1.01

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