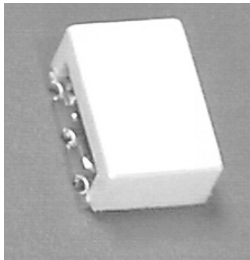


M/A-COM E-Series Surface Mount Mixer

125 – 208MHz

Features

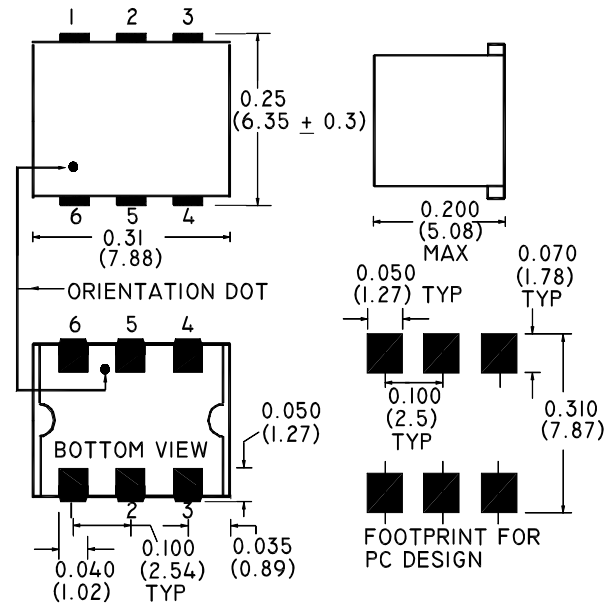
- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount
- Low Profile



Description

M/A-COM's MAMXES0040 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. MAMXES0040 is available in an SM-89 surface mount package and reflows using standard soldering reflow profiles.

SM- Package



Electrical Specifications @ +25°C, Z₀ = 50 Ohms, LO = +7dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 125-208	MHz	—	—	—
LO 139-194	MHz	—	—	—
IF 14	MHz	—	—	—
Conversion Loss				
125-208	dB	—	5.5	7.0
	dB	—	6.0	8.0
Isolation (LO - RF)				
139-194	MHz	45	55	—
Isolation (LO - IF)				
139-194	MHz	40	55	—
Isolation (IF - RF)				
139-194	MHz	33	36	—

S 1456 A

Specifications subject to change without notice.

V 1.0

■ 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

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

Absolute Maximum Ratings

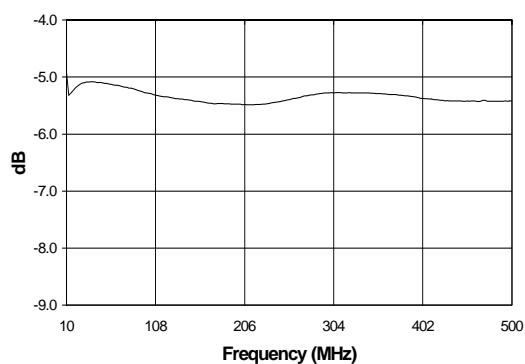
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-55°C to +100°C
Pin Temperature (10 Seconds)	260°C

Functional Configuration

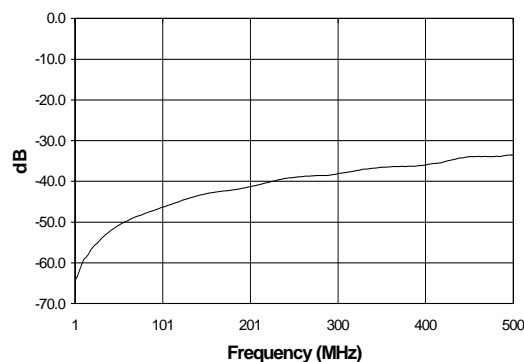
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

Typical Performance @ +25°C

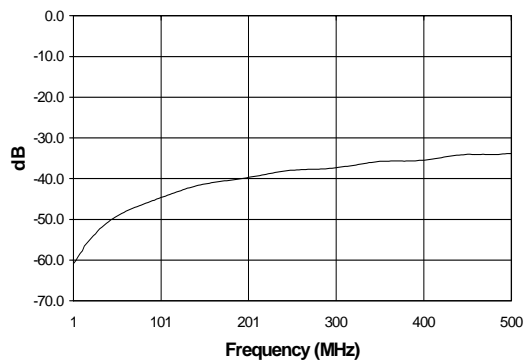
Conversion Loss



L-R Isolation



L-I Isolation



Specifications subject to change without notice.

S 1456 A

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