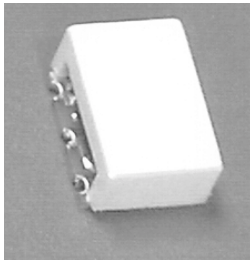


M/A-COM E-Series Surface Mount Mixer

2110 – 2170 MHz

Features

- LO Power +7 dBm
- Up to +1 dBm RF
- Surface Mount
- Low Profile

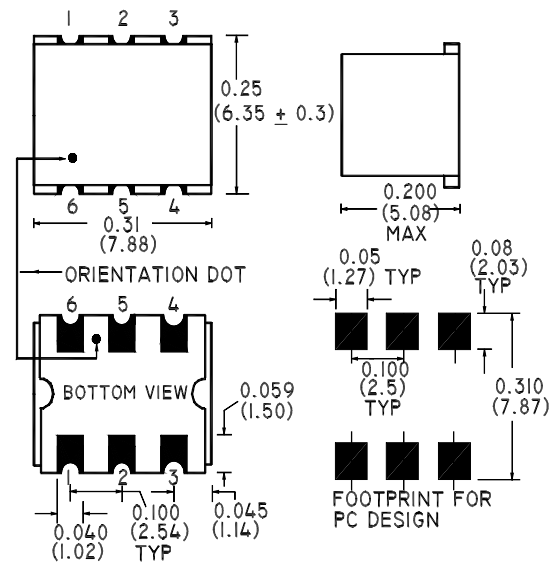


Description

M/A-COM's MAMXES0050 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. MAMXES0050 is available in an SM-87 surface mount package and reflows using standard soldering reflow profiles.

SM-87 Package

Note: Non Hermetic Package



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

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 2110 - 2170	MHz	—	—	—
LO 134 - 246	MHz	—	—	—
IF 1920 - 1980	MHz	—	—	—
Conversion Loss				
2110 - 2170	dB	—	10	11.2
Isolation (LO - RF)				
134 - 246	MHz	20	22	—
Isolation (LO - IF)				
350 - 750	MHz	18	22	—
RF Input for 1dB Compression	dBm	—	—	+1

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

tyco / Electronics

M/A-COM

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

Absolute Maximum Ratings

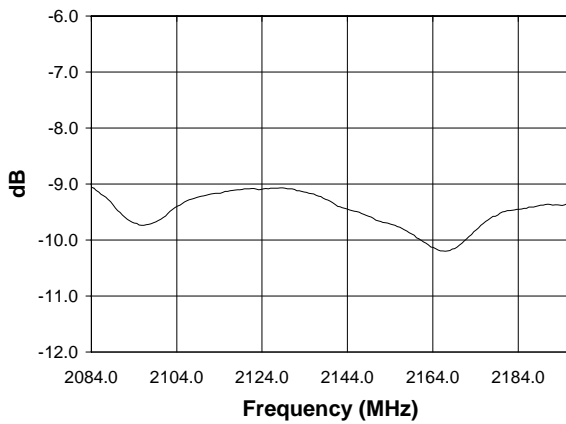
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-55°C to +100°C
Pin Temperature (10 Seconds)	260°C

Functional Configuration

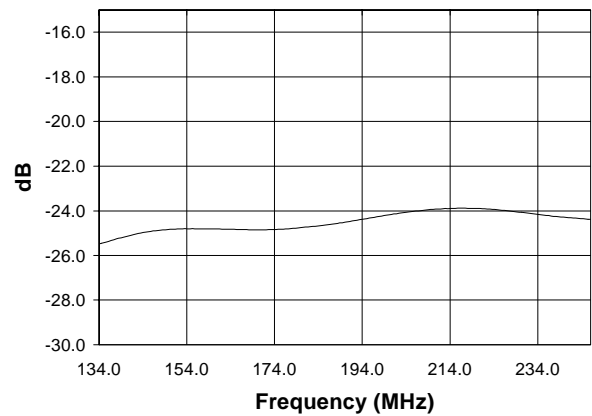
Function	Pin No.
LO	5
RF	4
IF	1
Ground	2, 3, 6
Case Ground	—
Unconnected	—

Typical Performance @ +25°C

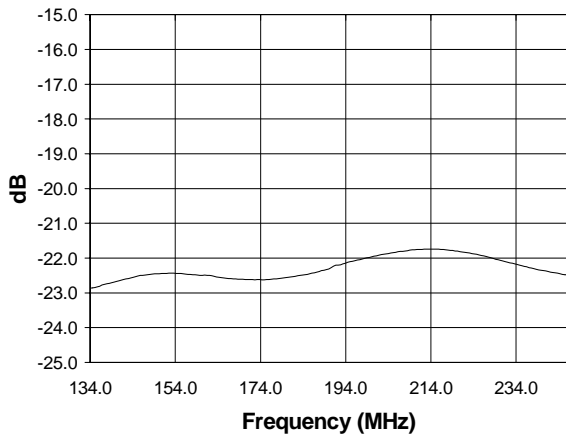
Conversion Loss



L-R Isolation



L-I Isolation



Specifications subject to change without notice.

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