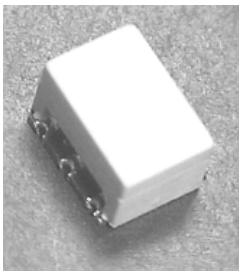
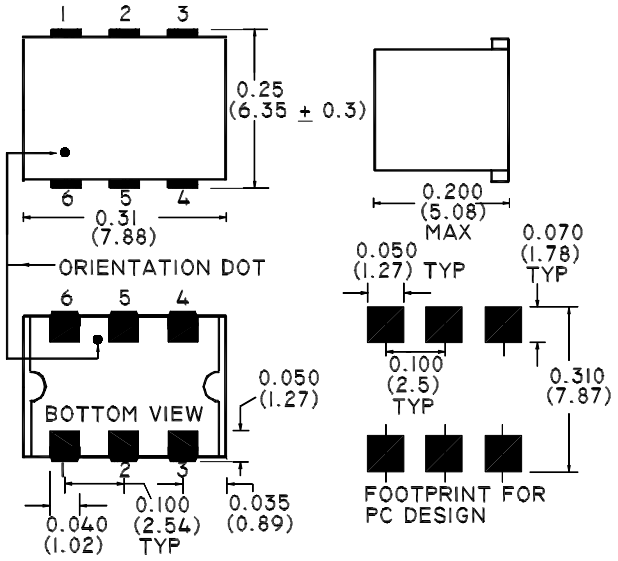
E-Series Surface Mount Mixer
700 – 1000 MHz

Features

- LO Power +11 to +15 dBm
- Surface Mount



SM-1 Package



Description

M/A-COM's MAMXES0065 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. MAMXES0065 is available in an SM-1 surface mount package and reflows using standard soldering reflow profiles.

Electrical Specifications @ +25°C, Z_0 = 50 Ohms, LO = +11 to + 15 dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 800 - 1000	MHz	—	—	—
LO 700 - 900	MHz	—	—	—
IF 70	MHz	—	—	—
Conversion Loss				
800 - 1000 MHz	dB	—	6.5	8.0
Isolation (LO - RF)				
700 - 900 MHz	MHz	30	33	—
Isolation (LO - IF)				
700 –900	MHz	25	28	—
Input IP3				—
700 - 1000	dBm	18	21	

M/A-COM n North America: Tel. (800) 366-2266, Fax (800) 618-8883 n Asia/Pacific: Tel.+85 2 2111 8088, Fax +85 2 2111 8087 n Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

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Specifications subject to change without notice.

Absolute Maximum Ratings

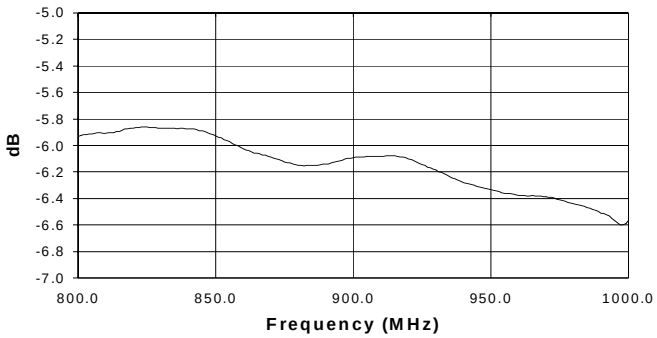
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to +100°C
Operating Temperature	-40°C to +85°C
Pin Temperature (10 Seconds)	260°C

Functional Configuration

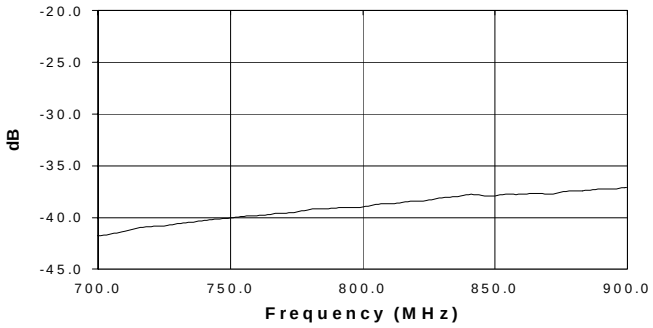
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

Typical Performance @ +25°C

Conversion Loss

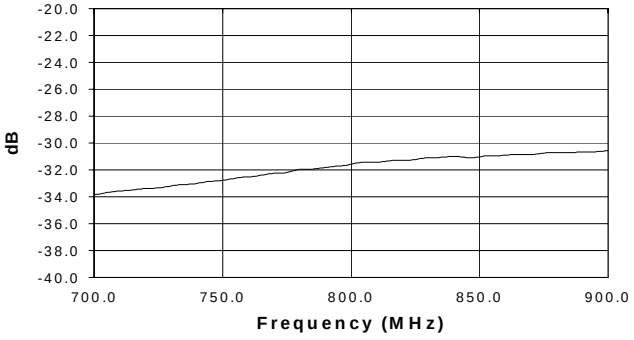


L to R Isolation

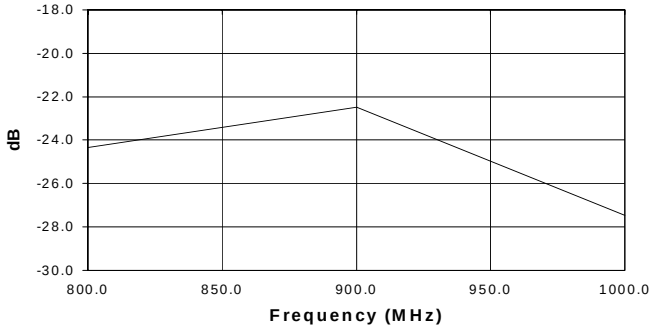


Typical Performance @ +25°C

L to I Isolation



Input IP3



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