

E-Series Surface Mount Mixer 1 – 1000 MHz

Rev A

Features

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



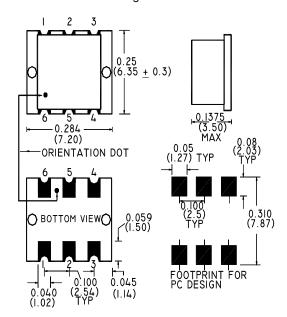
Description

M/A-COM's MAMXES0028 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. MAMXES0028 is available in an SM-134 surface mount package and reflows using standard soldering reflow profiles.

Electrical Specifications @ $+25^{\circ}$ C, $Z_0 = 50$ Ohms,



Note: Non Hermetic Package



LO

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 1 - 1000	MHz	_	_	_
LO 1 - 1000	MHz	_	_	_
IF 1 - 1000	MHz	_	_	_
Conversion Loss				
1 - 500	dB	_	6.5	7.5
500-1000	dB	_	7.5	8.5
Isolation (LO - RF)				
1 - 5	MHz	50	55	_
5 - 250	MHz	35	45	_
250 - 500	MHz	25	30	_
Isolation (LO - IF)				
1- 5	MHz	50	55	_
5 - 250	MHz	35	45	_
250 - 1000	MHz	25	30	_
RF Input for 1dB Compression	dBm	_	_	+1
Input IP3	dBm	14	18	_

Specifications subject to change without notice.

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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.

S 1605 A V 1.0

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Absolute Maximum Ratings

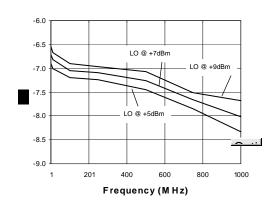
Parameter	Absolute Maximum	
RF Power	50 mW	
Peak IF Current	40 mA	
Storage Temperature	-55°C to +100°C	
Operating Temperature	-55°C to +100°C	
Pin Temperature (10 Seconds)	260°C	

Functional Configuration

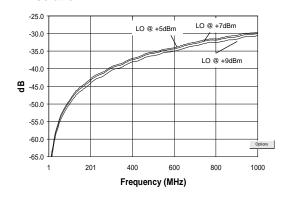
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	_
Unconnected	_

Typical Performance @ +25°C

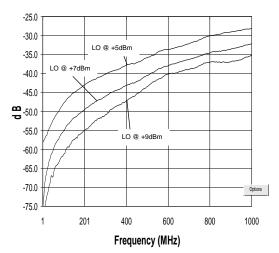
Conversion Loss



L-R Isolation



L-I Isolation

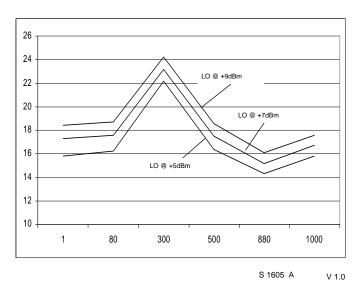


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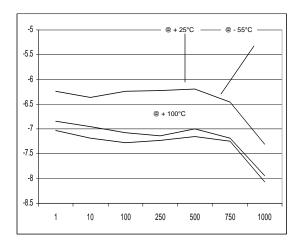


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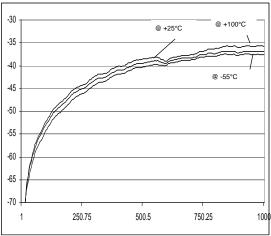
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Typical Performance over Operating Temperatures

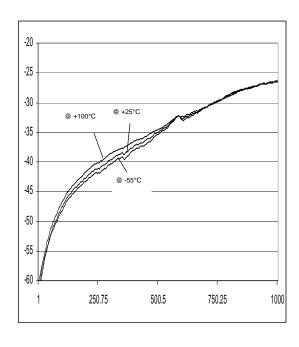
Conversion Loss



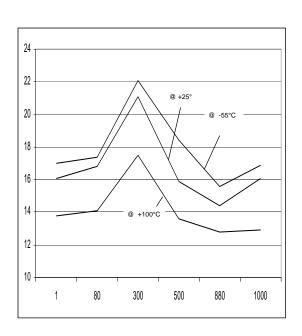
L-R Isolation



L-I Isolation



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