

E-Series Surface Mount Mixer 3 – 2500 MHz

Features

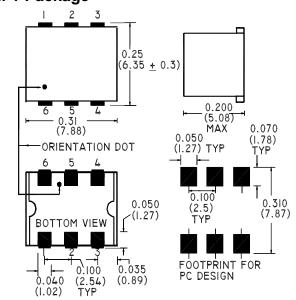
- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount



Description

M/A-COM's EMRS-25MH is a medium drive, Passive, Double Double Balanced Mixer constructed using Broadband Ferrite Balun Transformers and matched silicon Schottky diodes.

SM-1 Package



Electrical Specifications @ $+25^{\circ}$ C, $Z_0 = 50$ Ohms, LO = +13dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 5 - 2500	MHz	_	_	_
LO 5 - 2500	MHz	_	_	_
IF 3 - 1500	MHz	_	_	_
Conversion Loss				
5 - 1250	dB	_	6.3	8.5
5 - 2500	dB	_	7.3	9.8
Isolation (LO - RF)				
5 - 50	MHz	28	45	_
50 - 1250	MHz	23	35	_
1250 - 2500	MHz	20	30	_
Isolation (LO - IF)				
5 - 50	MHz	23	40	_
50 - 1250	MHz	20	30	_
1250 - 2500	MHz	17	25	_

S 0740 C V 1.0

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India Tel: +91.80.4155721
Europe Tel: +353.21.244.6400
China Tel: +86.21.2407.1588

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

Absolute Maximum Ratings

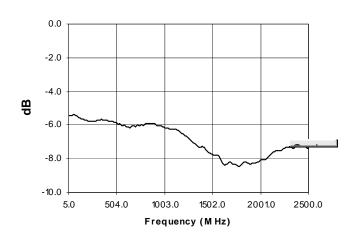
Parameter	Absolute Maximum		
RF Power	50 mW		
Peak IF Current	40 mA		
Storage Temperature	-40°C to +85°C		
Operating Temperature	-40°C to +85°C		
Pin Temperature (10 Seconds)	260°C		

Functional Configuration

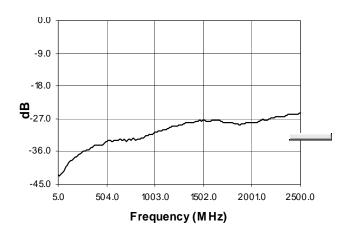
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	_
Unconnected	_

Typical Performance @ +25°C

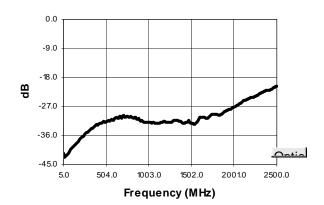
Conversion Loss



L-R Isolation



L-X Isolation



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