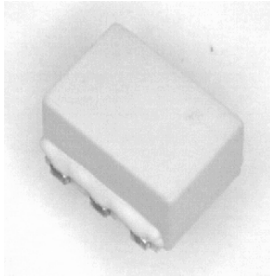


Features

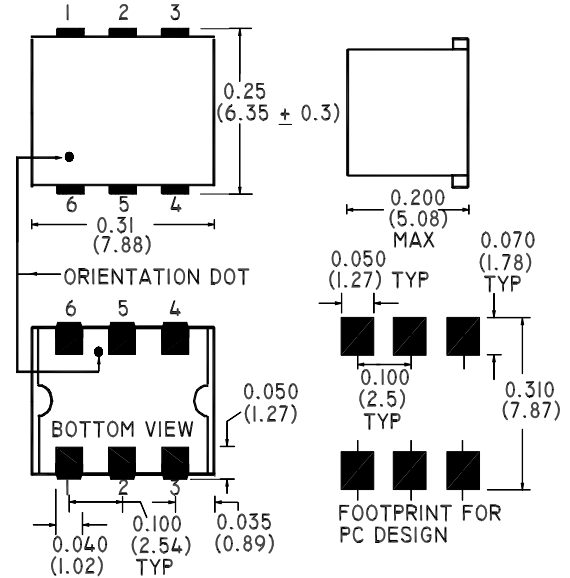
- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount



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°C, Z₀ = 50 Ohms, LO = +13dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF	5 - 2500	—	—	—
LO	5 - 2500	—	—	—
IF	3 - 1500	—	—	—
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	—

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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.

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

Absolute Maximum Ratings

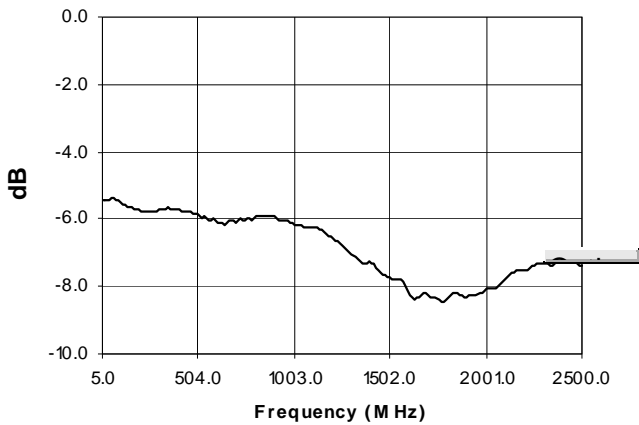
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-40°C to +85°C
Operating Temperature	-40°C to +85°C
Pin Temperature (10 Seconds)	260°C

Functional Configuration

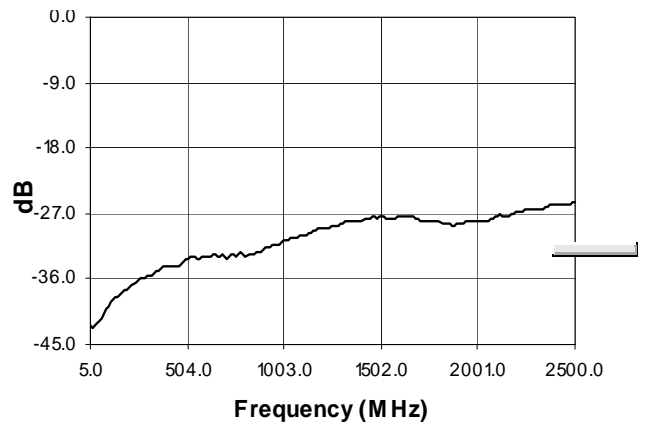
Function	Pin No.
LO	1
RF	4
IF	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

Typical Performance @ +25°C

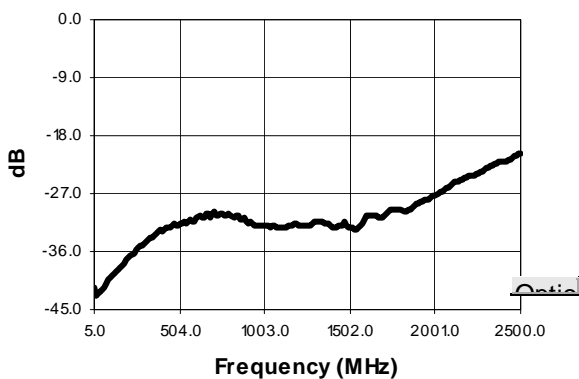
Conversion Loss



L-R Isolation



L-X Isolation



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