

E-Series Surface Mount Mixer
0.5 – 500 MHz

EMRS-1
V1

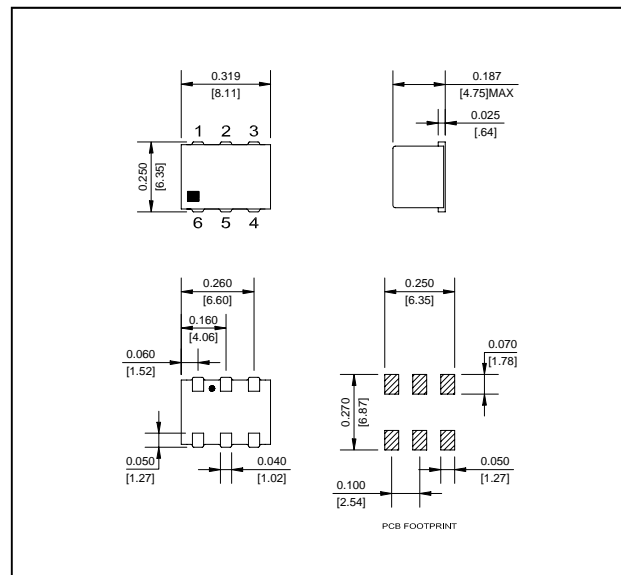
Features

- LO Power +7 dBm
- Up to +1 dBm RF
- Low Profile
- Surface Mount
- Tape and reel packaging available

Description

M/A-COM's EMRS-1 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. EMRS-1 is available in an SM-1 surface mount package and reflows using standard soldering reflow profiles. Parts are packaged in tape & reel.

SM - 1 Package



Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$ ¹, LO = +7 dBm

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	0.5 - 500	MHz	—	—	—
LO Frequency	—	0.5 - 500	MHz	—	—	—
IF Frequency	—	DC - 500	MHz	—	—	—
Conversion Loss	—	1 - 250 0.5 - 500	dB dB	— —	5.5 6.2	7.0 8.5
Isolation	LO to RF	5 - 250 250 - 500	dB dB	25 20	33 27	— —
Isolation	LO to IF	0.5 - 5 5 - 250 250 - 500	dB dB dB	55 30 24	45 23 19	— — —
Input 1 dB Compression	—	0.5 - 500	dBm	—	—	1

Ordering Information

Part Number	Package
EMRS-1TR	Tape and Reel (900 piece Reel)

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

Pin Configuration

Pin No.	Function
1	LO
2	Ground
3	Ground
4	RF
5	IF
6	Ground

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +125°C
Pin Temperature (10 seconds)	+260°C

1. Operation of this device above any one of these parameters may cause permanent damage.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [RF Mixer](#) category:

Click to view products by [MACOM](#) manufacturer:

Other Similar products are found below :

[HMC337-SX](#) [mamx-009646-23dbm1](#) [MC4507-2](#) [HMC339-SX](#) [CSM5T](#) [CHR3664-QEG](#) [HMC8192-SX](#) [MIQ24MS-2](#) [M85C](#) [M74C](#) [MD-174-PIN](#) [HMC554A-SX](#) [HMC521A-SX](#) [HMC521ACHIPS](#) [HMC558A](#) [HMC8191](#) [CMD258C4](#) [CMD258](#) [LT5511EFE](#) [MAMX-011023-SMB](#) [HMC399MS8TR](#) [HMC333TR](#) [HMC214MS8TR](#) [HMC175MS8TR](#) [HMC1043LC3TR](#) [MAMXSS0012TR-3000](#) [109728-HMC129LC4](#) [CSM2-13](#) [CSM1-13](#) [SA612AD/01.112](#) [HMC785LP4ETR](#) [LT5526EUF#PBF](#) [LT5579IUH#PBF](#) [HMC773ALC3BTR](#) [HMC558ALC3B](#) [HMC329ALC3B](#) [MY63H](#) [SMA5101-TL-H](#) [AD8343ARUZ-REEL7](#) [AD608AR](#) [AD608ARZ](#) [AD831APZ-REEL7](#) [AD8342ACPZ-REEL7](#) [AD8343ARUZ](#) [AD8344ACPZ-REEL7](#) [ADL5363ACPZ-R7](#) [ADL5365ACPZ-R7](#) [ADL5801ACPZ-R7](#) [ADL5802ACPZ-R7](#) [HMC1048ALC3B](#)