



E-Series Surface Mount Mixer 5 – 1000 MHz

EMRS-2 V1

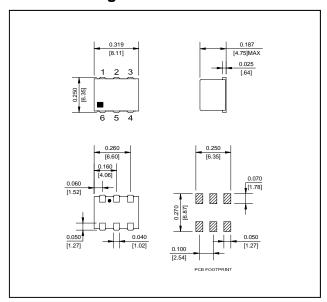
Features

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

Description

M/A-COM's EMRS-2 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-2 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: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega^{-1}$, LO = +7 dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	-	5 - 1000	MHz	_	_	_
LO Frequency	ı	5 - 1000	MHz	_	_	_
IF Frequency	_	DC - 1000	MHz	_	_	_
Conversion Loss	_	10 - 500 5 - 1000	dB dB	_ _	6.5 7.0	8.0 9.5
Isolation	LO to RF	5 - 50 50 - 500 500 - 1000	dB dB dB	40 20 18	60 40 25	
Isolation	LO to IF	5 - 50 50 - 1000	dB dB	30 20	55 30	
Input 1 dB Compression	_	5 - 1000	dBm	_	_	1

Ordering Information

Part Number	Package	
EMRS-2TR	Tape and Reel (900 piece Reel)	

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- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298





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EMRS-2

Pin Configuration

Pin No.	Function
1	ГО
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.

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