

## E-Series Surface Mount Mixer

### 1805 - 1880 & 925 - 960 MHz

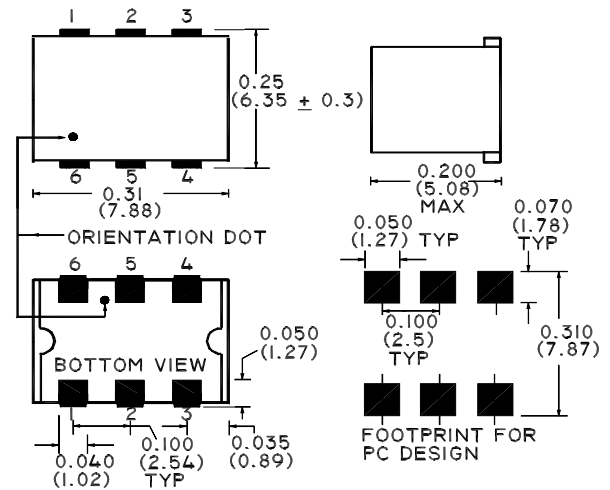


#### Features

- LO Power +7 dBm
- Up to +7 dBm RF
- Surface Mount



#### SM-1 Package



#### Description

M/A-COM's EMRS-6X1 is a low drive, surface mount mixer suitable for use in wireless applications.

#### Electrical Specifications @ -55°C - +100°C, $Z_0 = 50$ Ohms, LO = +7dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range (1)				
RF 1805 - 1880	MHz	—	—	—
LO 95	MHz	—	—	—
IF 1710 - 1785	MHz	—	—	—
Frequency Range (2)				
RF 925 - 960	MHz	—	—	—
LO 45	MHz	—	—	—
IF 820 - 915	MHz	—	—	—
Conversion Loss				
1805 - 1880 MHz	dB	8.5	9.5	11.0
925 - 960 MHz	dB	6.5	7.0	9.0
Isolation (LO - RF)				
95 MHz & 45 MHz	dB	25	35	55
Isolation (LO - IF)				
95 MHz & 45 MHz	dB	25	30	40
RF Input for 1dB Compression	dBm	—	—	+7
RF VSWR	—	1.3:1	2.4:1	3.0:1
LO VSWR	—	1.4:1	1.6:1	1.8:1
IF VSWR	—	1.1:1	1.4:1	1.8:1

V1.00 S 0520 H

**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 I/P	1
RF O/P	4
IF I/P	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

V1.00 S 0520 H


[www.macom.com](http://www.macom.com)

M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel. +85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

AMP and Connecting at a Higher Level are trademarks.  
Specifications subject to change without notice.

