

# E-Series Surface Mount Mixer

## 5 - 1000 MHz

## EMRS-2, EMRSJ-2, EMRSL-2

V3.00

### Features

- LO Power: +7 dBm
- Up to +1 dBm RF
- Surface Mount

### Specifications @ 25°C

Frequency Range		
RF		5 - 1000 MHz
LO		5 - 1000 MHz
IF		DC - 1000 MHz
Conversion Loss (dB)		
	Typical	Maximum
10 - 500 MHz	6.5	8.0
5 - 1000 MHz	7.0	9.5
Isolation (dB)		
	Typical	Minimum
LO to RF		
5 - 50 MHz	60	40
50 - 500 MHz	40	20
500 - 1000 MHz	25	18
LO to IF		
5 - 50 MHz	55	30
50 - 500 MHz	30	20
500 - 1000 MHz	20	12

### Operating Characteristics

Impedance	50 Ohms Nominal
RF input for 1dB Compression	+ 1 dBm

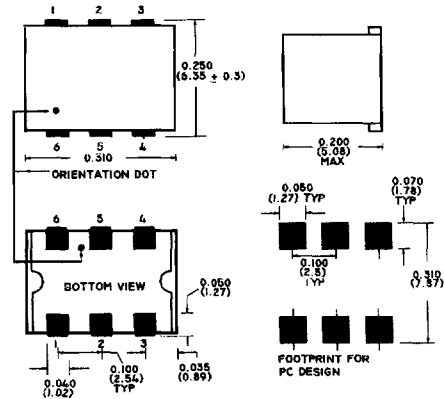
### Ordering Information

<b>Part No.</b>	<b>Packaging</b>
EMRS-2	SM-1 in Tubes
EMRS-2TR	SM-1 in Forward Tape & Reel
EMRSJ-2	SM-44 in Tubes
EMRSL-2	SM-24 in Tubes
EMRSL-2TR	SM-24 in Forward Tape & Reel

### 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

### SM-1



Dimensions in ( ) are in mm.  
 Unless Otherwise Noted: .x = ±0.04 (1.00)  
 .xx = ±0.02 (0.50)  
 .xxx = ±0.010 (0.250)

### Pin Configuration

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

Specifications Subject to Change Without Notice.

S 0068 C, S 1144 A, S 0365 C

12-52

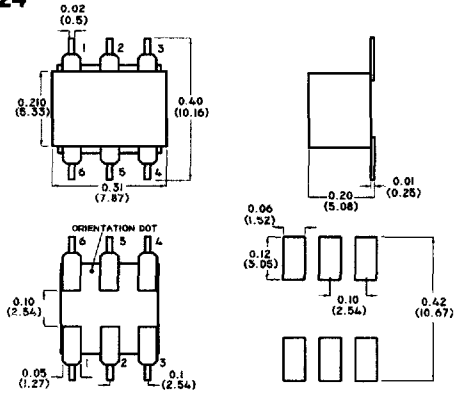
M/A-COM, Inc.

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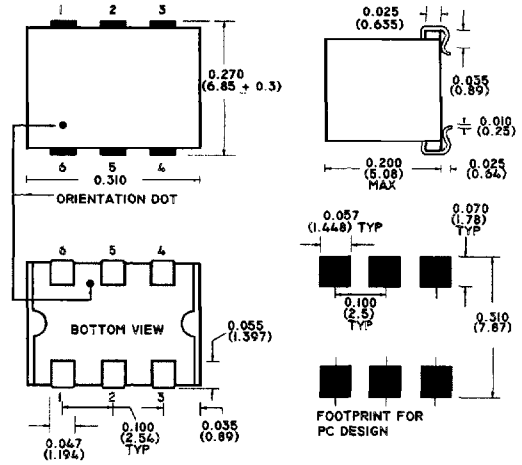
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**SM-24**



Dimensions in ( ) are in mm.  
 Unless Otherwise Noted: .x = ±0.04 (1.00)  
 .xx = ±0.02 (0.50)  
 .xxx = ±0.010 (0.250)

**SM-44**



Dimensions in ( ) are in mm.  
 Unless Otherwise Noted: .x = ±0.04 (1.00)  
 .xx = ±0.02 (0.50)  
 .xxx = ±0.010 (0.250)

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