

E-Series Surface Mount Mixer

.5 - 500 MHz

EMRS-1, EMRSL-1, EMRSJ-1

V3.00

Features

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

Specifications @ 25°C

Frequency Range

RF		0.5 - 500 MHz
LO		0.5 - 500 MHz
IF		DC - 500 MHz
Conversion Loss (dB)	Typical	Maximum
1 - 250 MHz	5.5	7.0
0.5 - 500 MHz	6.2	8.5
Isolation (dB)	Typical	Minimum
LO to RF		
0.5 - 5 MHz	55	50
5 - 250 MHz	33	25
250 - 500 MHz	27	20
LO to IF		
0.5 - 5 MHz	55	45
5 - 250 MHz	30	23
250 - 500 MHz	24	19

Operating Characteristics

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

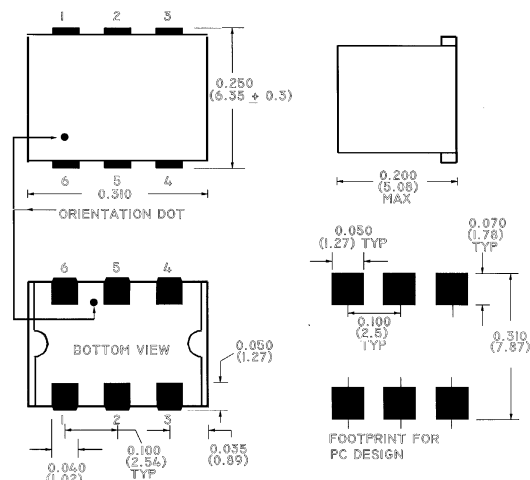
Ordering Information

Part No.	Packaging
EMRS-1	SM-1 in Tubes
EMRS-1TR	SM-1 in Forward Tape & Reel
EMRSL-1	SM-24 in Tubes
EMRSL-1TR	SM-24 in Forward Tape & Reel
EMRSJ-1	SM-44 in Tubes

Absolute Maximum Ratings

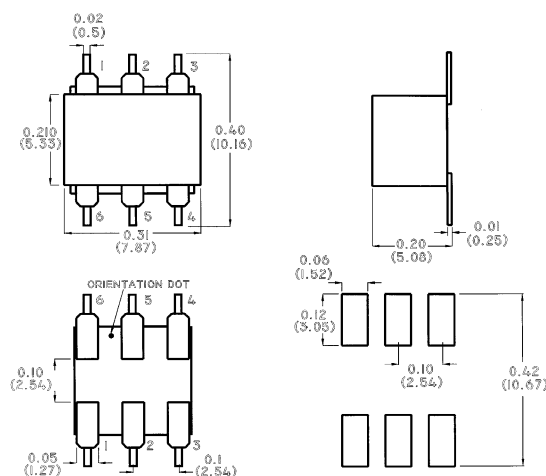
Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to 100°C
Operating Temperature	-55°C to 100°C
Pin Temperature (10 Seconds)	260°C

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)

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)

Specifications Subject to Change Without Notice.

S 0054 C, S 0815 B, S 01876 D

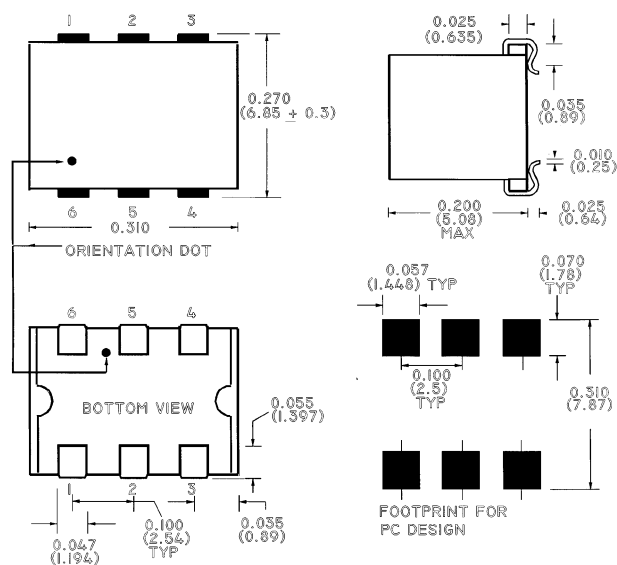
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SM-44



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 .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