

E-Series Surface Mount Mixer

5 - 1500 MHz

EMRS-5L, EMRSL-5L

V3.00

Features

- LO Power: +3 dBm
- Up to -1 dBm RF
- Surface Mount

Specifications @ 25 °C

Frequency Range		
RF		5 - 1500 MHz
LO		5 - 1500 MHz
IF		DC - 1000 MHz
Conversion Loss (dB)		
10 - 750 MHz	Typical 6.5	Maximum 7.5
5 - 1500 MHz	Typical 7.5	Maximum 9.5
Isolation (dB)		
LO to RF	Typical	Minimum
5 - 50 MHz	60	40
50 - 750 MHz	40	20
750 - 1500 MHz	30	18
LO to IF		
5 - 50 MHz	55	30
50 - 750 MHz	30	18
750 - 1500 MHz	15	8

Operating Characteristics

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

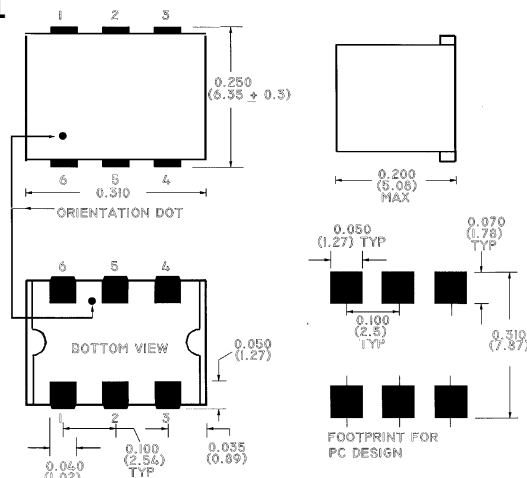
Ordering Information

Part No.	Packaging
EMRS-5L	SM-1 in Tubes
EMRS-5LTR	SM-1 in Forward Tape & Reel
EMRSL-5L	SM-24 in Tubes
EMRSL-5LTR	SM-24 in Forward Tape & Reel

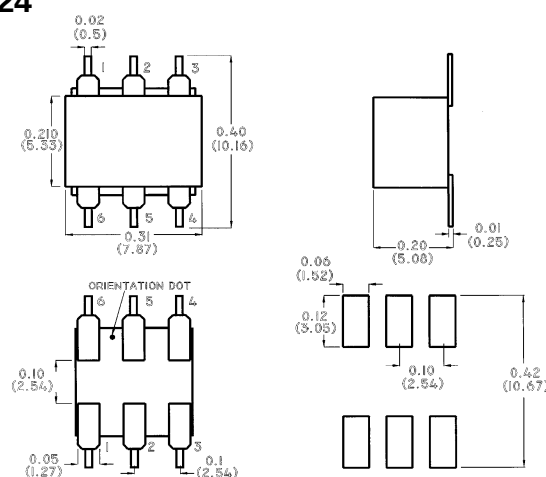
Absolute Maximum Ratings

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



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)

Pin Configuration (Typical):

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

Specifications Subject to Change Without Notice.

S 0076 B, S 0433 B

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