

E-Series Surface Mount Mixer

0.5 - 500 MHz

EMRS-1H, EMRSJ-1H, EMRSL-1H

V3.00

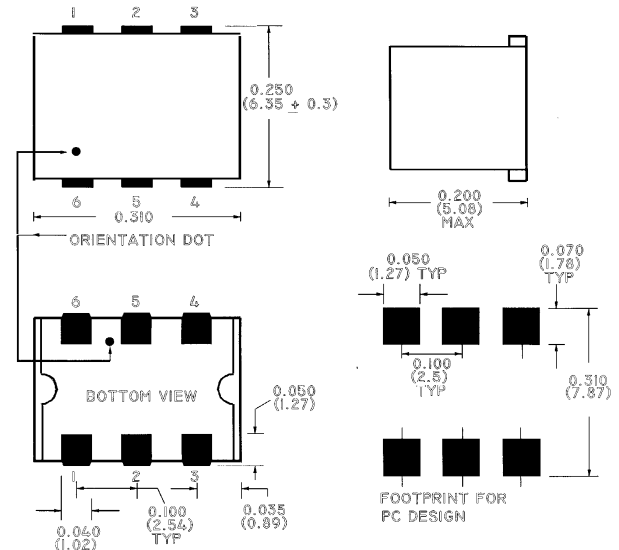
Features

- LO Power +17 dBm
- Up to +14 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	70.0
0.5 - 500 MHz	6.2	8.5
Isolation (dB)		
	Typical	Minimum
LO to RF		
0.5 - 5 MHz		50
5 - 250 MHz	55	25
LO to IF		
0.5 - 5 MHz		45
5 - 250 MHz	30	23
250 - 500 MHz	24	19

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)

Operating Characteristics

Impedance	50 Ohms Nominal
RF input for 1dB Compression	+ 14 dBm

Ordering Information

Part No.	Packaging
EMRS-1H	SM-1 in Tubes
EMRS-1HTR	SM-1 in Forward Tape & Reel
EMRS-1HX	SM-63 in Tubes
EMRSJ-1H	SM-44 in Tubes

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	200 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

Specifications Subject to Change Without Notice.

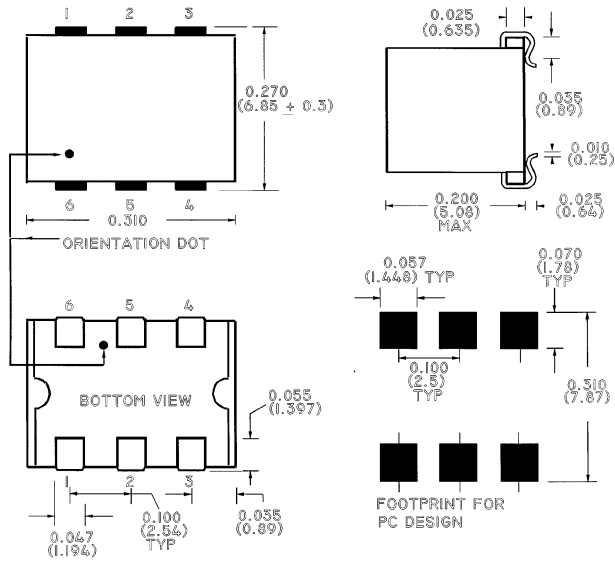
S 0061 B, S 1161 A, S 1145 A, S 0360 C

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SM-44



Pin Configuration (Typical)

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

SM-63

