

# E-Series Surface Mount Mixer

## 5 - 2000 MHz

**EMRS-11H, EMRSJ-11H**

V3.00

### Features

- LO Power: +17 dBm
- Up to +14 dBm RF
- Surface Mount

### Specifications @ 25°C

|                      |         |              |
|----------------------|---------|--------------|
| Frequency Range      |         |              |
| RF                   |         | 5 - 2000 MHz |
| LO                   |         | 5 - 2000 MHz |
| IF                   |         | 10 - 600 MHz |
| Conversion Loss (dB) | Typical | Maximum      |
| 10 - 1000 MHz        | 7.0     | 8.5          |
| 5 - 2000 MHz         | 7.5     | 9.0          |
| Isolation (dB)       | Typical | Minimum      |
| LO to RF             |         |              |
| 5 - 50 MHz           | 50      | 45           |
| 50 - 1000 MHz        | 35      | 25           |
| 1000 - 2000 MHz      | 30      | 20           |
| LO to IF             |         |              |
| 5 - 50 MHz           | 45      | 40           |
| 50 - 1000 MHz        | 30      | 20           |
| 1000 - 2000 MHz      | 25      | 15           |

### Operating Characteristics

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

### Ordering Information

| Part No.   | Packaging                   |
|------------|-----------------------------|
| EMRS-11H   | SM-1 in Tubes               |
| EMRS-11HTR | SM-1 in Forward Tape & Reel |
| EMRSJ-11H  | SM-44 in Tubes              |

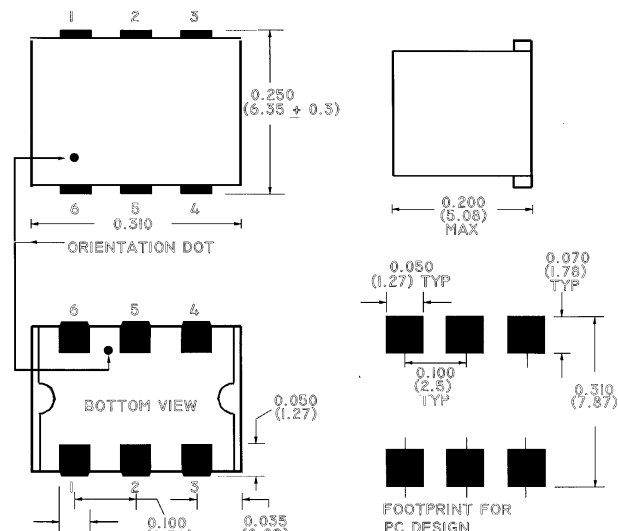
### Absolute Maximum Ratings

| 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            |

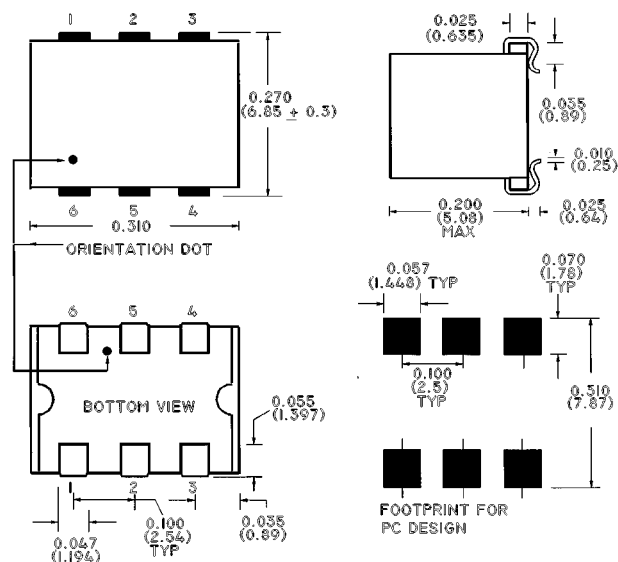
### Pin Configuration

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

### SM-1



### 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)

Specifications Subject to Change Without Notice.

S 0060 B, S 1152 A

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