

# E-Series Surface Mount Mixer

## 350 - 2000 MHz

# EMRS-11F

V3.00

### Features

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

### Specifications @ 25°C

|                      |         |                |
|----------------------|---------|----------------|
| Frequency Range      |         |                |
| RF                   |         | 350 - 2000 MHz |
| LO                   |         | 350 - 2000 MHz |
| IF                   |         | DC - 400 MHz   |
| Conversion Loss (dB) |         |                |
|                      | Typical | Maximum        |
| 350 - 1000 MHz       | 5.5     | 7.0            |
| 350 - 2000 MHz       | 6.8     | 9.2            |
| Isolation (dB)       |         |                |
|                      | Typical | Minimum        |
| LO to RF             |         |                |
| 350 - 750 MHz        | 25      | 20             |
| 750 - 1000 MHz       | 25      | 18             |
| 1000 - 2000 MHz      | 30      | 20             |
| LO to IF             |         |                |
| 350 - 750 MHz        | 22      | 14             |
| 750 - 1000 MHz       | 29      | 22             |
| 1000 - 2000 MHz      | 28      | 22             |

### Operating Characteristics

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

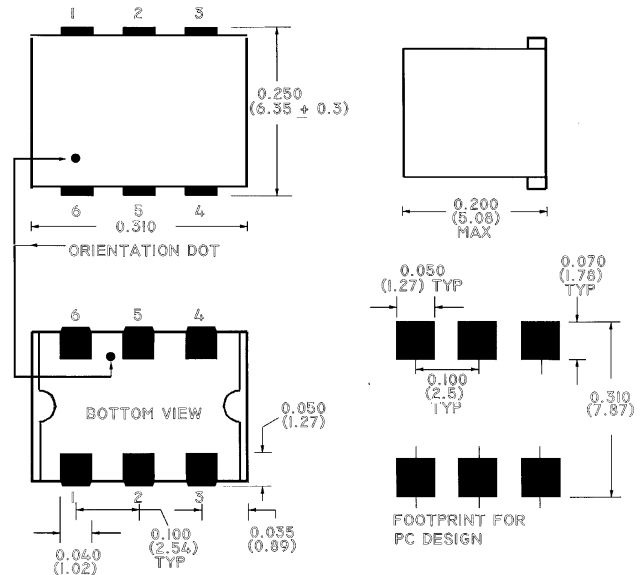
### Ordering Information

|                 |                     |
|-----------------|---------------------|
| <b>Part No.</b> | <b>Packaging</b>    |
| EMRS-11F        | Tube                |
| EMRS-11FTR      | 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.

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