

E-Series Surface Mount Mixer

5 - 1500 MHz

EMRS-5

Features

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

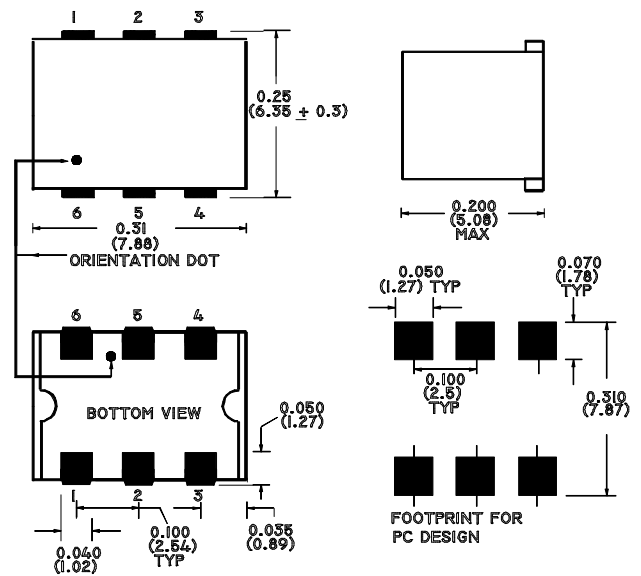
Specifications @ 25°C

| Frequency Range | |
|-----------------|---------------|
| RF | 5 - 1500 MHz |
| LO | 5 - 1500 MHz |
| IF | DC - 1000 MHz |

| Conversion Loss (dB) | Typical | |
|----------------------|---------|-----|
| 10 - 750 MHz | 6.5 | 7.5 |
| 5 - 1500 MHz | 7.5 | 9.5 |

| Isolation (dB) | Typical | Minimum |
|----------------|---------|---------|
| LO to RF | | |
| 5 - 50 MHz | 60 | 40 |
| 50 - 750 MHz | 40 | 20 |
| 750 - 1500 MHz | 30 | 18 |
| LO to IF | | |
| 5 - 50 MHz | 55 | 30 |
| | 30 | 18 |

SM-1



Operating Characteristics

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

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 |

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