

E-Series Surface Mount Mixer

5 - 1500 MHz

EMRS-5LH

V3.00

Features

- LO Power: +10 dBm
- Up to +5 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 | Maximum |
| 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 |
| 50 - 750 MHz | 30 | 18 |
| 750 - 1500 MHz | 15 | 8 |

Operating Characteristics

| | |
|------------------------------|-----------------|
| Impedance | 50 Ohms Nominal |
| RF input for 1dB Compression | +5 dBm |

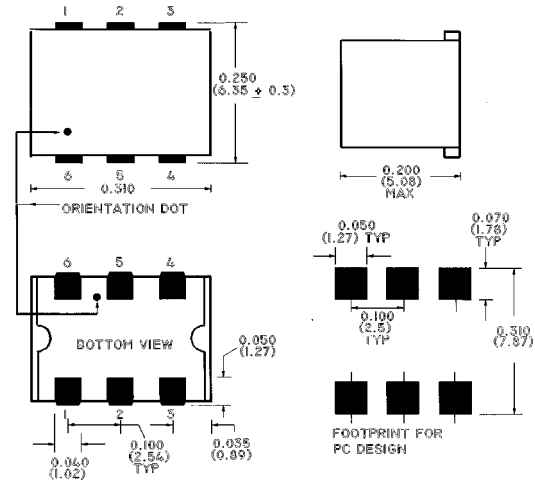
Ordering Information

| | |
|-----------------|---------------------|
| Part No. | Packaging |
| EMRS-5LH | Tubes |
| EMRS-5LHTR | 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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