



# E-Series Surface Mount Mixer, +3 dBm LO Power 5 – 1500 MHz

**EMRS-5L**

## Features

- +3 dBm LO Power
- Up to -1 dBm RF
- Surface Mount
- Tape and Reel Packaging Available

## Specifications @ 25°C

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

|                 |            |            |
|-----------------|------------|------------|
| Conversion Loss |            |            |
| 50–750 MHz      | 6.5 dB Typ | 7.5 dB Max |
| 5–1500 MHz      | 7.5 dB Typ | 9.5 dB Max |

|              |           |           |
|--------------|-----------|-----------|
| Isolation    |           |           |
| LO to RF     |           |           |
| 5–50 MHz     | 60 dB Typ | 40 dB Min |
| 50–750 MHz   | 40 dB Typ | 20 dB Min |
| 750–1500 MHz | 30 dB Typ | 18 dB Min |
| LO to IF     |           |           |
| 5–50 MHz     | 55 dB Typ | 30 dB Min |
| 50–750 MHz   | 30 dB Typ | 18 dB Min |
| 750–1500 MHz | 15 dB Typ | 8 dB Min  |

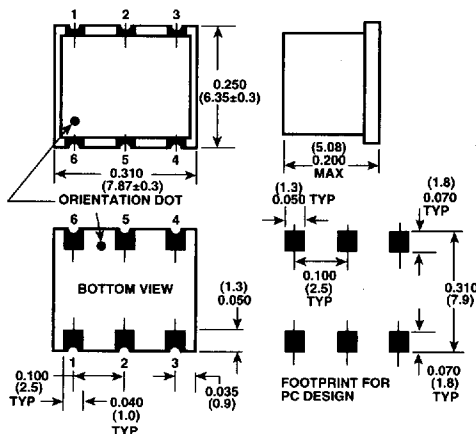
## Operating Characteristics

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

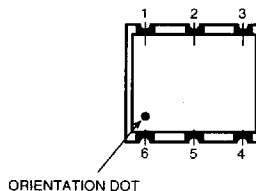
## Absolute Maximum Ratings

| Parameter               | Absolute Maximum  |
|-------------------------|-------------------|
| RF Power                | 50 mW             |
| Peak IF Current         | 40 mA             |
| Operating/Storage Temp. | -55 °C to +100 °C |

## SM-1



## Pin Configuration (Top View)



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

Specifications Subject to Change Without Notice

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