



# E-Series Plug-In Mixer

## 2 – 500 MHz

**EMT-1MH**

### Features

- +13 dBm LO Power
- Up to +9 dBm RF

### Specifications @ 25°C

|                 |  |            |
|-----------------|--|------------|
| Frequency Range |  |            |
| RF, LO          |  | 2–500 MHz  |
| IF              |  | DC–500 MHz |

|                 |            |            |
|-----------------|------------|------------|
| Conversion Loss |            |            |
| 20–250 MHz      | 6.0 dB Typ | 7.5 dB Max |
| 2–500 MHz       | 7.0 dB Typ | 8.5 dB Max |

|             |           |           |
|-------------|-----------|-----------|
| Isolation   |           |           |
| LO to RF    |           |           |
| 2–20 MHz    | 50 dB Typ | 45 dB Min |
| 20–250 MHz  | 40 dB Typ | 30 dB Min |
| 250–500 MHz | 30 dB Typ | 20 dB Min |
| LO to IF    |           |           |
| 2–20 MHz    | 45 dB Typ | 40 dB Min |
| 20–250 MHz  | 35 dB Typ | 25 dB Min |
| 250–500 MHz | 25 dB Typ | 20 dB Min |

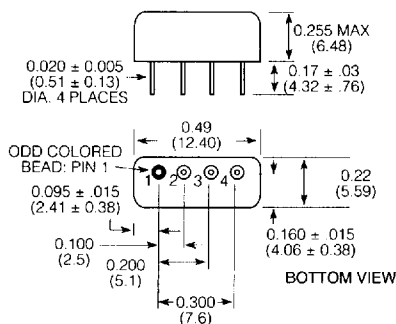
### Operating Characteristics

|                               |                 |
|-------------------------------|-----------------|
| Impedance                     | 50 Ohms Nominal |
| RF Input for 1 dB Compression | +9 dBm          |

### Absolute Maximum Ratings

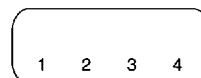
| Parameter                 | Absolute Maximum  |
|---------------------------|-------------------|
| RF Power                  | 200 mW            |
| Peak IF Current           | 40 mA             |
| Operating/Storage Temp    | -55 °C to +100 °C |
| Pin Temperature (10 sec.) | +260 °C           |

### R-3



WEIGHT (APPROX.): 0.05 OUNCES 1.5 GRAMS

### Pin Configuration (Top View)



| Function    | Pin No. |
|-------------|---------|
| LO          | 4       |
| RF          | 1       |
| IF          | 2       |
| Ground      | 3       |
| Case Ground | 3       |

Specifications Subject to Change Without Notice

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