

# E-Series Plug-In Mixer

## 5 - 1000 MHz

# EMS-173H

V3.00

### Features

- LO Power: +17 dBm
- Up to +14 dBm RF

### Specifications @ 25°C

|                      |             |              |
|----------------------|-------------|--------------|
| Frequency Range      |             |              |
| RF                   |             | 5 - 1000 MHz |
| LO                   |             | 5 - 1000 MHz |
| IF                   |             | 1 - 1000 MHz |
| Conversion Loss (dB) |             |              |
| 10 - 500 MHz         | Typical 6.0 | Maximum 7.0  |
| 5 - 1000 MHz         | 7.0         | 8.5          |
| Isolation (dB)       |             |              |
| LO to RF             | Typical     | Minimum      |
| 5 - 50 MHz           | 50          | 35           |
| 50 - 500 MHz         | 45          | 30           |
| 500 - 1000 MHz       | 40          | 25           |
| LO to IF             |             |              |
| 5 - 50 MHz           | 40          | 30           |
| 50 - 500 MHz         | 35          | 25           |
| 500 - 1000 MHz       | 35          | 20           |

### Operating Characteristics

|                              |                 |
|------------------------------|-----------------|
| Impedance                    | 50 Ohms Nominal |
| RF input for 1dB Compression | +14 dBm         |

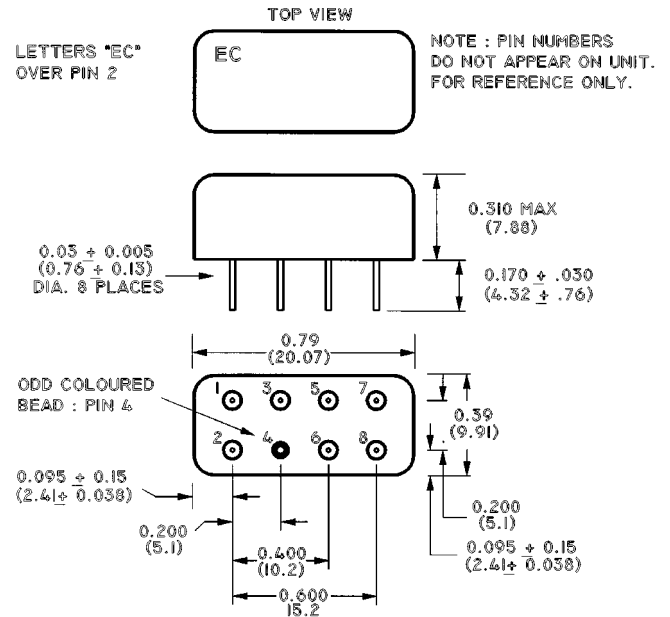
### Ordering Information

|                 |                     |
|-----------------|---------------------|
| <b>Part No.</b> | <b>Packaging</b>    |
| EMS-173H        | Tube                |
| EMS-173HTR      | Forward Tape & Reel |

### Absolute Maximum Ratings

| Parameter                    | Absolute Maximum |
|------------------------------|------------------|
| RF Power                     | 200 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            |

### R-1



Dimensions in ( ) are in mm.  
 Unless Otherwise Noted: .x = ±0.04 (1.00)  
 .xx = ±0.02 (0.50)  
 .xxx = ±0.010 (0.250)  
 WEIGHT (APPROX.): 0.16 OUNCES 4.4 GRAMS

### Pin Configuration

| Function    | Pin No. |
|-------------|---------|
| LO          | 3,4     |
| RF          | 1       |
| IF          | 8       |
| Ground      | 2,5,6,7 |
| Case Ground | 2,5,6,7 |

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Specifications Subject to Change Without Notice.

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