

E-Series Plug-In Mixer

1 - 500 MHz

EMS-1

V3.00

Features

- LO Power: +7 dBm
- Up to +1 dBm RF

Specifications @ 25°C

| | | |
|----------------------|---------|--------------|
| Frequency Range | | |
| RF | | 1 - 500 MHz |
| LO | | 1 - 500 MHz |
| IF | | DC - 500 MHz |
| Conversion Loss (dB) | | |
| | Typical | Maximum |
| 2 - 250 MHz | 5.5 | 7.0 |
| 1 - 500 MHz | 6.5 | 8.0 |
| Isolation (dB) | | |
| | Typical | Minimum |
| LO to RF | | |
| 1 - 10 MHz | 60 | 45 |
| 10 - 250 MHz | 45 | 35 |
| 250 - 500 MHz | 40 | 25 |
| LO to IF | | |
| 1 - 10 MHz | 45 | 35 |
| 10 - 250 MHz | 40 | 25 |
| 250 - 500 MHz | 30 | 20 |

Operating Characteristics

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

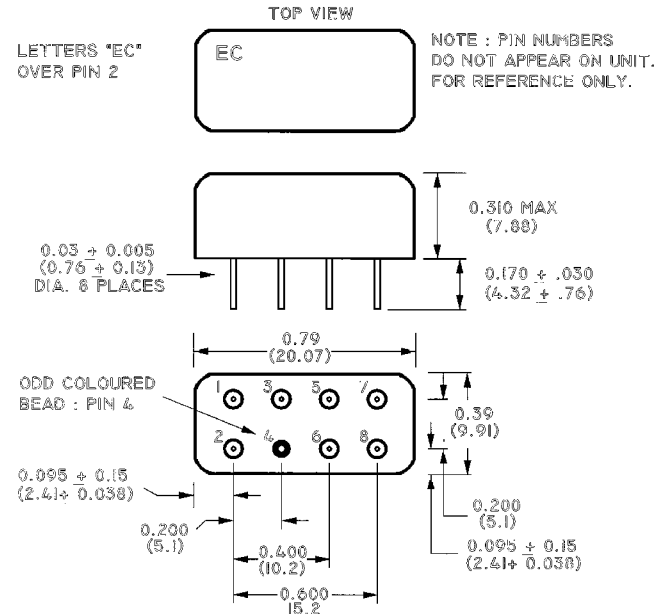
Ordering Information

| | |
|-----------------|---------------------|
| Part No. | Packaging |
| EMS-1 | Tube |
| EMS-1TR | 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 |

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)

Pin Configuration

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

*IF pins must be connected together externally.

S 0086 C

Specifications Subject to Change Without Notice.

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