

# E-Series Plug-In Mixer

## 1 - 500 MHz

# EMS-1S

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)		
2 - 250 MHz	Typical	Maximum
	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

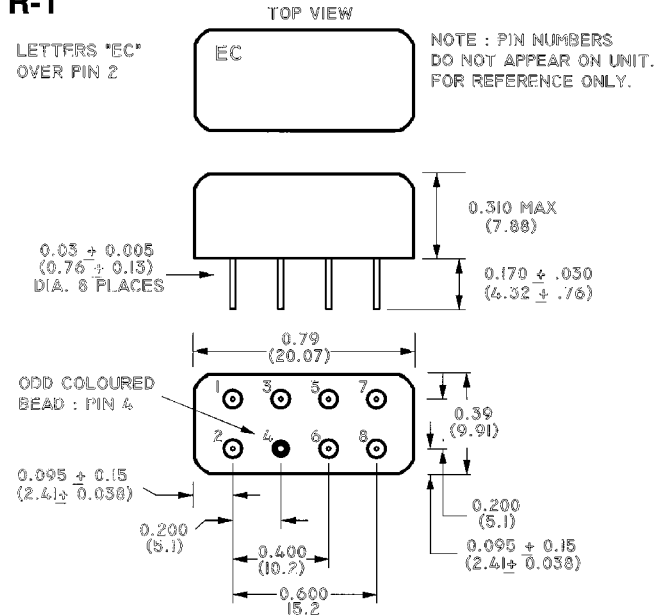
### Ordering Information

<b>Part No.</b>	<b>Packaging</b>
EMS-1S	Tube
EMS-1STR	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)  
 WEIGHT (APPROX.): 0.16 OUNCES 4.4 GRAMS

### Pin Configuration

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

\* IF pins must be connected together externally.

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Specifications Subject to Change Without Notice.

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