

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
1 - 500 MHz	5.5	7.0
	6.5	8.0
Isolation (dB)		
LO to RF	Typical	Minimum
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

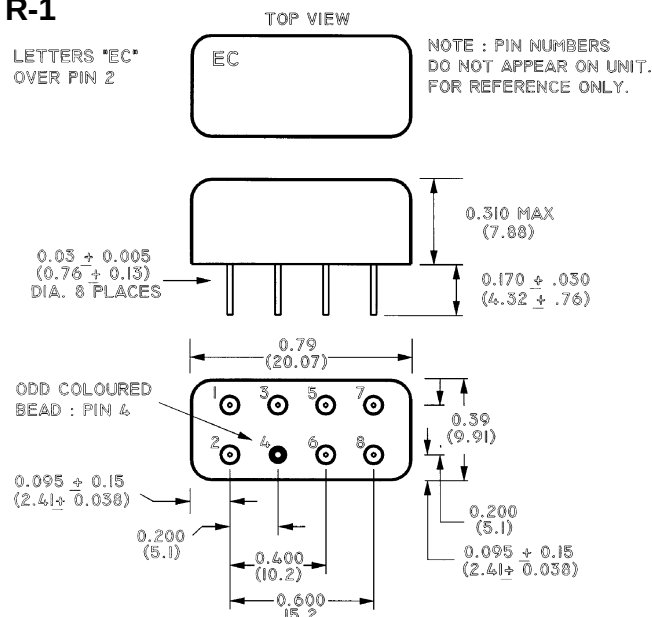
Ordering Information

Part No.	Packaging
EMS-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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