

E-Series Plug-In Mixer

0.5 - 500 MHz

EMA-1L

V3.00

Features

- LO Power: +3 dBm
- Up to -1 dBm RF

Specifications @ 25°C

Frequency Range		
RF		0.5 - 500 MHz
LO		0.5 - 500 MHz
IF		DC - 500 MHz
Conversion Loss (dB)		
1 - 250 MHz	Typical 5.5	Maximum 7.0
0.5 - 500 MHz	Typical 6.5	Maximum 8.5
Isolation (dB)		
LO to RF	Typical	Minimum
0.5 - 5 MHz	50	45
5 - 250 MHz	45	30
250 - 500 MHz	35	25
LO to IF		
0.5 - 5 MHz	45	35
5 - 250 MHz	40	25
250 - 500 MHz	30	20

Operating Characteristics

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

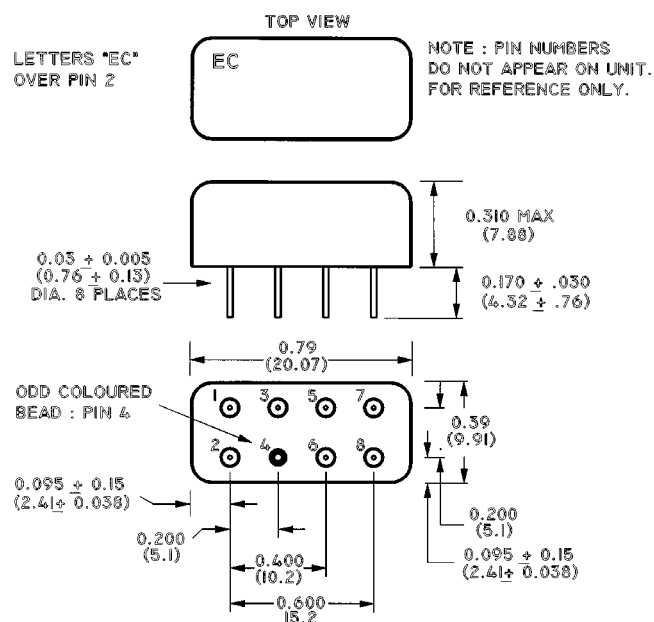
Ordering Information

Part No.	Packaging
EMA-1L	Tube
EMA-1LTR	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.): 1.6 OUNCES 4.4 GRAMS

Pin Configuration

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

*IF pins must be connected together externally.

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