

E-Series Plug-In Mixer

0.003 - 100 MHz

EMA-6

V3.00

Features

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

Specifications @ 25°C

Frequency Range		
RF		0.003 - 100 MHz
LO		0.003 - 100 MHz
IF		DC - 100 MHz
Conversion Loss (dB)		
0.006 - 50 MHz	Typical 5.5	Maximum 7.5
0.003 - 100 MHz	6.5	8.5
Isolation (dB)		
LO to RF	Typical	Minimum
0.003 - 0.03 MHz	60	50
0.03 - 50 MHz	45	30
50 - 100 MHz	35	25
LO to IF		
0.003 - 0.03 MHz	60	45
0.03 - 50 MHz	40	25
50 - 100 MHz	30	20

Operating Characteristics

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

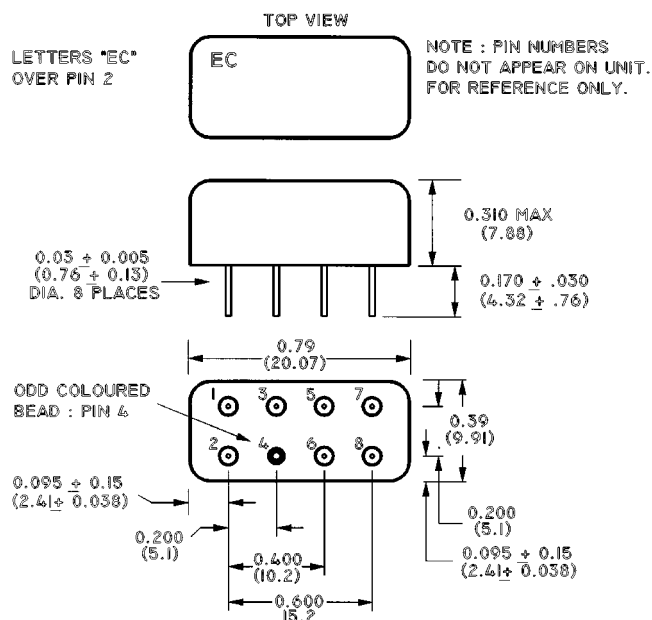
Ordering Information

Part No.	Packaging
EMA-6	Tube
EMA-6TR	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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