

E-Series Plug-In Mixer

10 - 1000 MHz

EMS-1X

V3.00

Features

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

Specifications @ 25°C

Frequency Range		
RF		10 - 1000 MHz
LO		10 - 1000 MHz
IF		5 - 500 MHz
Conversion Loss (dB)	Typical	Maximum
		20 - 500 MHz
		10 - 1000 MHz
Isolation (dB)	Typical	Minimum
		LO to RF
		10 - 100 MHz
Isolation (dB)	Typical	Minimum
		100 - 500 MHz
		500 - 1000 MHz
Isolation (dB)	Typical	Minimum
		LO to IF
		10 - 100 MHz
		100 - 500 MHz
		500 - 1000 MHz

Operating Characteristics

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

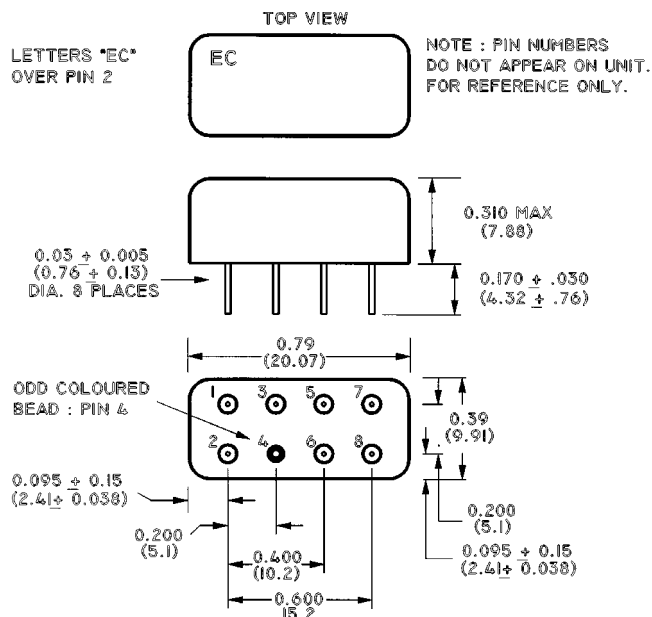
Ordering Information

Part No.	Packaging
EMS-1X	Tube
EMS-1XTR	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*	3,4
IF	1
Ground	2,5,6,7
Case Ground	2,5,6,7

* RF pins must be connected together externally.

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