

E-Series Plug-In Mixer

0.025 - 200 MHz

EMS-3

V3.00

Features

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

Specifications @ 25°C

Frequency Range		
RF		0.025 - 200 MHz
LO		0.025 - 200 MHz
IF		DC - 200 MHz
Conversion Loss (dB)		
0.05 - 100 MHz	Typical	Maximum
	5.5	7.5
.025 - 200 MHz	6.0	8.5
Isolation (dB)		
LO to RF	Typical	Minimum
0.025 - 0.25 MHz	55	50
0.25 - 100 MHz	45	30
100 - 200 MHz	35	25
LO to IF		
0.025 - 0.25 MHz	45	35
0.25 - 100 MHz	40	30
100 - 200 MHz	30	20

Operating Characteristics

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

Ordering Information

Part No.	Packaging
EMS-3	Tube
EMS-3TR	Forward Tape & Reel

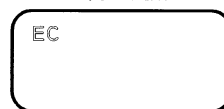
Absolute Maximum Ratings

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

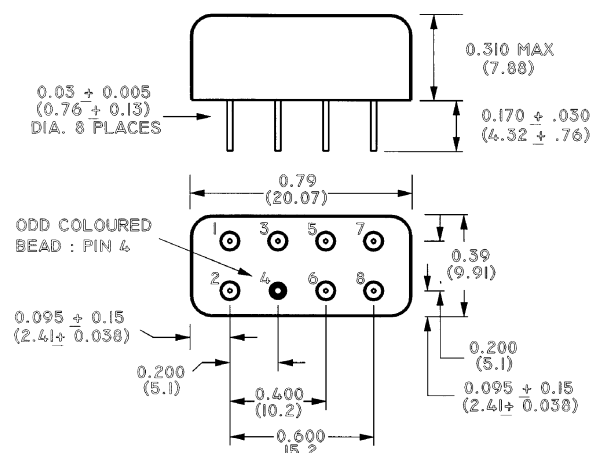
R-1

LETTERS 'EC'
OVER PIN 2

TOP VIEW



NOTE : PIN NUMBERS
DO NOT APPEAR ON UNIT.
FOR REFERENCE ONLY.



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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