



E-Series Plug-In Mixer

10 – 1000 MHz

EMS-1X

Features

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

Specifications @ 25°C

Frequency Range		
RF, LO		10–1000 MHz
IF		5–500 MHz

Conversion Loss		
20–500 MHz	6.0 dB Typ	7.5 dB Max
10–1000 MHz	7.0 dB Typ	8.0 dB Max

Isolation		
LO to RF		
10–100 MHz	50 dB Typ	40 dB Min
100–500 MHz	40 dB Typ	30 dB Min
500–1000 MHz	30 dB Typ	20 dB Min
LO to IF		
10–100 MHz	50 dB Typ	45 dB Min
100–500 MHz	40 dB Typ	35 dB Min
500–1000 MHz	35 dB Typ	25 dB Min

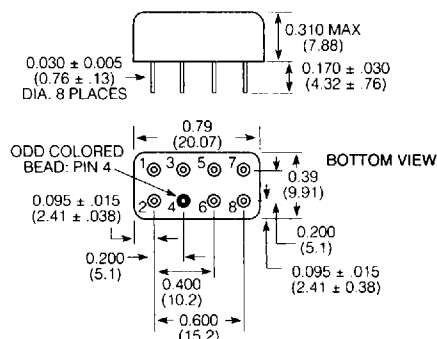
Operating Characteristics

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

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Operating/Storage Temp.	-55 °C to +100 °C
Pin Temperature (10 sec.)	+260 °C

R-1



WEIGHT (APPROX.): 0.16 OUNCES 4.4 GRAMS

Pin Configuration (Top View)

2	4	6	8
1	3	5	7

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

* Pins must be externally connected together.

Specifications Subject to Change Without Notice

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