

E-Series Plug-In Mixer

750 - 960 MHz

EMA-173HXX

V3.00

Features

- LO Power: +17 dBm
- Up to +14 dBm RF

Specifications @ 25°C

Frequency Range	
RF	750 - 960 MHz
LO	750 - 960 MHz
IF	40 - 80 MHz
Conversion Loss (dB)	Maximum
750 - 960 MHz	7
Isolation (dB)	Minimum
LO to RF	
750 - 960 MHz	25
LO to IF	
750 - 960 MHz	20
RF to IF	
750 - 960 MHz	20

Operating Characteristics

Impedance	50 Ohms Nominal
RF input for 1dB Compression	+14 dBm
Two Tone Third Order Input Intercept	Minimum
	+25 dBm
Test Conditions	
RF1 @ 0 dBm	890 MHz
RF2 @ 0 dBm	891 MHz
LO @ +17 dBm	820 MHz
VSWR	Maximum
LO	2.32:1
RF	2.32:1
IF	2.61:1

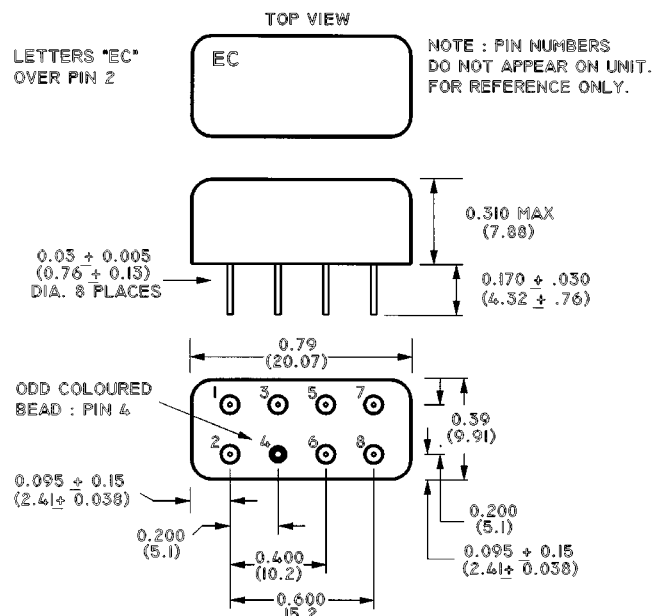
Ordering Information

Part No.	Packaging
EMA-173HXX	Tube
EMA-173HXXTR	Forward Tape & Reel

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	200 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	1
RF	8
IF*	3,4
Ground	2,5,6,7
Case Ground	2,5,6,7

*IF pins must be connected together externally.

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