



E-Series Surface Mount Mixer

2 – 500 MHz

EMRS-1MH

Features

- +13 dBm LO Power
- Up to +9 dBm RF
- Surface Mount
- Tape and Reel Packaging Available

Specifications @ 25°C

Frequency Range		
RF, LO		2–500 MHz
IF		DC–500 MHz
Conversion Loss		
4–250 MHz	5.7 dB Typ	7.0 dB Max
2–500 MHz	6.0 dB Typ	8.0 dB Max
Isolation		
LO to RF		
2–20 MHz	58 dB Typ	45 dB Min
20–250 MHz	44 dB Typ	25 dB Min
250–500 MHz	30 dB Typ	20 dB Min
LO to IF		
2–20 MHz	55 dB Typ	40 dB Min
20–250 MHz	36 dB Typ	25 dB Min
250–500 MHz	28 dB Typ	17 dB Min

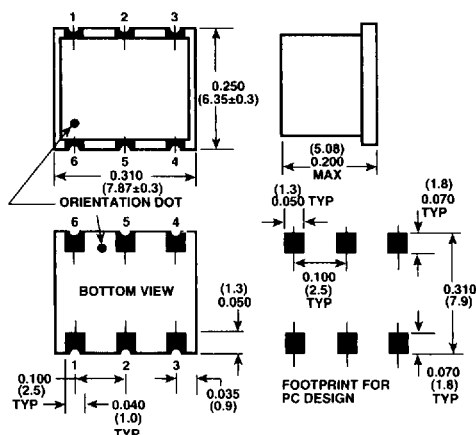
Operating Characteristics

Impedance	50 Ohms Nominal
RF Input for 1 dB Compression	+9 dBm

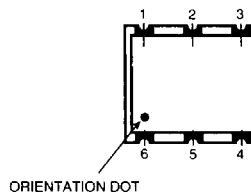
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	150 mW
Peak IF Current	40 mA
Operating/Storage Temp.	-55 °C to +100 °C

SM-1



Pin Configuration (Top View)



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

Specifications Subject to Change Without Notice

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