

E-Series Surface Mount Mixer

935 - 960 MHz

EMRS-5LX

V3.00

Features

- LO Power: +3 dBm
- Up to -1 dBm RF
- Surface Mount

Specifications @ 25 °C

Frequency Range		
RF		935 - 960 MHz
LO		857 - 882 MHz
IF		80 MHz
Conversion Loss (dB)	Typical	Maximum
935 - 960 MHz	7.5	8.5
Isolation (dB)	Typical	Minimum
LO to RF		
857 - 882 MHz	25	20
LO to IF		
857 - 882 MHz	30	22
Two Tone Third Order Input Intercept (dBm)	Typical	Minimum
	+10	+8
Test Conditions		
RF1: 935 MHz @ -10 dBm		
RF2: 936 MHz @ -10 dBm		
LO: 855 MHz @ +3 dBm		
RF1: 950 MHz @ -10 dBm		
RF2: 951 MHz @ -10 dBm		
LO: 870 MHz @ +3 dBm		
RF1: 960 MHz @ -10 dBm		
RF2: 961 MHz @ -10 dBm		
LO: 880 MHz @ +3 dBm		

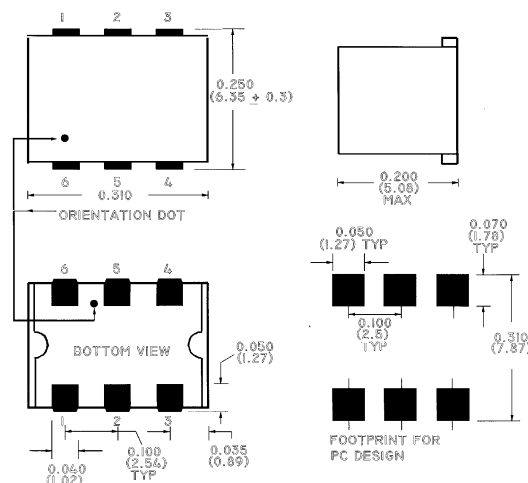
Operating Characteristics

Impedance	50 Ohms Nominal
RF input for 1dB Compression	-1 dBm
DC Polarity	Negative

Ordering Information

Part No.	Packaging
EMRS-5LX	Tubes
EMRS-5LXTR	Forward Tape & Reel

SM-1



Dimensions in () are in mm.
Unless Otherwise Noted: .x = ±0.04 (1.00)
.xx = ±0.02 (0.50)
.xxx = ±0.010 (0.250)

Pin Configuration

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

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

Specifications Subject to Change Without Notice.

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M/A-COM, Inc.

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North America: Tel. (800) 366-2266 ■ Asia/Pacific: Tel. +81 (03) 3226-1671 ■ Europe: Tel. +44 (1344) 869 595
Fax (800) 618-8883 Fax +81 (03) 3226-1451 Fax +44 (1344) 300 020