

E-Series Surface Mount Mixer 1930 – 1990 MHz

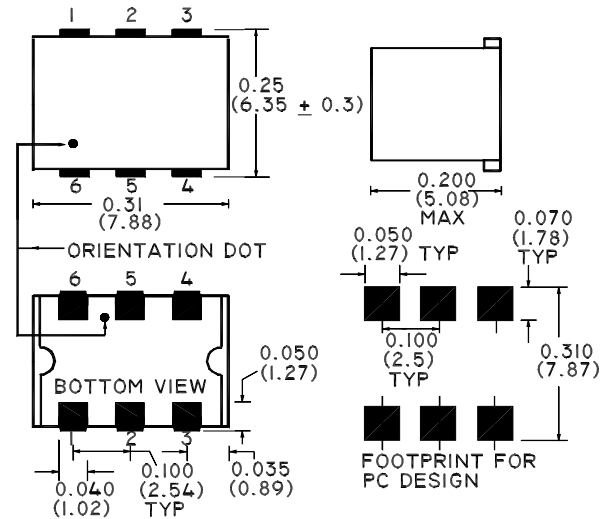


Features

- LO Power +7 dBm
- Up to +7 dBm RF
- Surface Mount



SM-1 Package



Description

M/A-COM's EMRS-6X8 is a low drive, surface mount mixer suitable for use in wireless applications.

Electrical Specifications @ -55°C - +100°C, $Z_0 = 50$ Ohms, LO = +7dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 1930 - 1990	MHz	—	—	—
LO 80	MHz	—	—	—
IF 1850 - 1910	MHz	—	—	—
Conversion Loss 1930 - 1990 MHz	dB	8.5	9.5	11.0
Isolation (LO - RF) 80 MHz	dB	40	55	60
Isolation (LO - IF) 80 MHz	dB	25	37	43
RF Input for 1dB Compression	dBm	—	—	+1
LO Return Loss 80 MHz	dB	15	27	—
RF VSWR	—	1.6:1	2.2:1	2.8:1
LO VSWR	—	1.2:1	1.4:1	1.6:1
IF VSWR	—	1.4:1	1.8:1	2.2:1
Input IP3	dBm	20	24	—
Output IP3	dBm	9.5	13.5	—

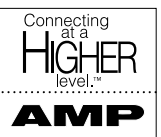
V1.00 S 1156 E



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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

Functional Configuration

Function	Pin No.
LO I/P	1
RF O/P	4
IF I/P	5
Ground	2, 3, 6
Case Ground	—
Unconnected	—

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