E-Series Surface Mount Mixer
880 – 915 MHz

M/A·COM
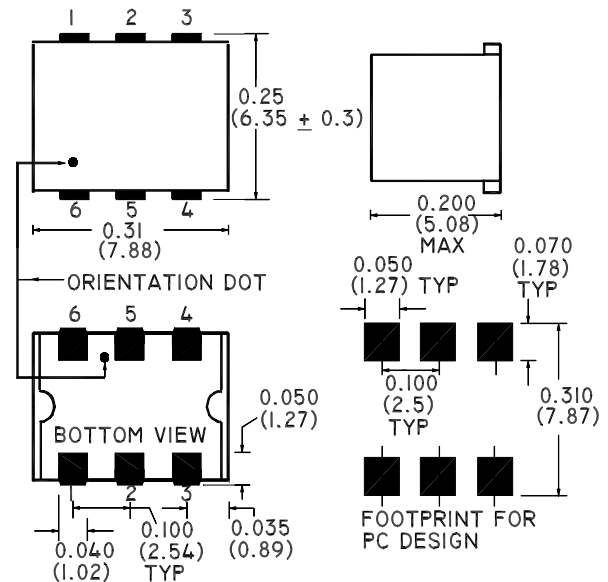*Technology Solutions*

Features

- LO Power +17 dBm
- Up to +13 dBm RF
- Surface Mount
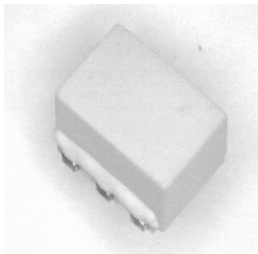
Description

M/A-COM's EMRS-6HX1 is a low drive , surface mount mixer suitable for use in wireless applications.

SM-1 Package

Electrical Specifications @ -10°C - +85°C , Z_0 = 50 Ohms, LO = +17dBm

Parameter	Units	Minimum	Typical	Maximum
Frequency Range				
RF 880 - 915	MHz	—	—	—
LO 1000 - 1130	MHz	—	—	—
IF 150 - 170	MHz	—	—	—
Conversion Loss				
880 - 915 MHz	dB	—	5.5	8.0
Isolation (LO - RF)				
Isolation (LO - IF)				
1000 - 1130	dB	25	30	—
RF Input for 1dB Compression	dBm	—	—	+13
IIP3	dBm	23	27	—
RF VSWR	—	1.7:1	2.0:1	2.3:1
LO VSWR	—	1.3:1	1.5:1	1.8:1
IF VSWR	—	1.0:1	1.2:1	1.4:1

V1.00   S 0727 G

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-10°C to +85°C
Operating Temperature	-10°C to +85°C
Pin Temperature (10 Seconds)	260°C

Functional Configuration

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

V1.00   S 0727 G