

E-Series Surface Mount Mixer
876 – 915 MHz

EMRS-6HX1
V4

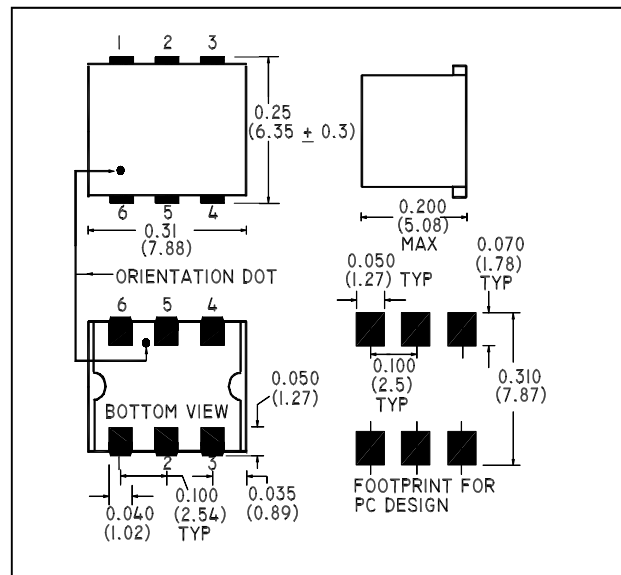
Features

- LO Power +17 dBm
- Up to +13 dBm RF
- Surface Mount
- Tape and reel packaging available

Description

M/A-COM's EMRS-6HX1 is a Low Cost, Low Drive, Passive surface mount Mixer. The EMRS-6HX1 is suitable for wireless applications and are packaged in tape & reel.

SM - 1 Package



Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$, LO = +17 dBm

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	876 – 915	MHz	—	—	—
LO Frequency	—	800 – 1130	MHz	—	—	—
IF Frequency	—	70 – 170	MHz	—	—	—
Conversion Loss	—	876 – 915	dB	—	5.5	8.0
Isolation	LO to RF	800 - 1130	dB	25	30	—
Isolation	LO to IF	800 - 1130	dB	25	30	—
VSWR	LO	800 – 1130	—	1.3:1	1.5:1	1.8:1
VSWR	RF	876 – 915	—	1.7:1	2.0:1	2.3:1
VSWR	IF	70 – 170	—	1.0:1	1.2:1	1.4:1
Input IP3	—	876 – 915	dBm	23	27	—
RF Input 1 dB Compression	—	80 -2500	dBm	13	—	—

Ordering Information

Part Number	Package
EMRS-6HX1TR	Tape and Reel (500 piece Reel)

Pin Configuration

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

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
RF Input Power	50 mW
Peak IF Current	40 mA
Pin Temperature (10 seconds)	260°C
Operating Temperature	-10°C to +85°C
Storage Temperature	-55°C to +125°C

1. Operation of this device above any one of these parameters may cause permanent damage.