

# M/A-COM

## E-Series Surface Mount Mixer 1850-1910 MHz

### Features

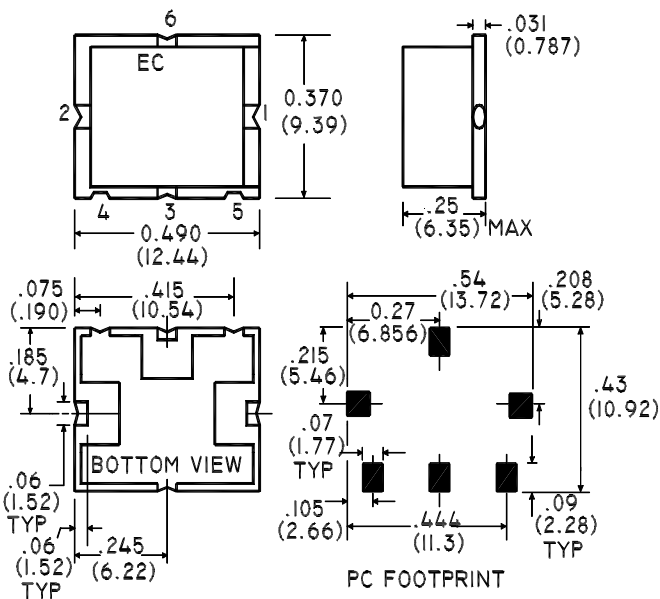
- LO Power +15 to +17 dBm
- RF Power -5dBm
- Surface Mount



### Description

M/A-COM's MAMXES0061 is a Low Cost, Passive Double Double Balanced Mixer. Constructed using very broad band ferrite balun transformers and matched silicon schottky diodes, it's performance is especially suited to high dynamic range receivers.

### SM-2 Package



### Electrical Specifications @ +25°C

Parameter	Units	Minimum	Typical	Maximum
Frequency Range RF : 1850 -1910MHz LO : 1610 -1640 MHz IF : 240.1 MHz	— — —	— — —	— — —	— — —
Conversion Loss 1850-1910MHz	dB	—	7.5	8.0
LO - RF Isolation 1610-1640MHz	dB	25.0	30.0	—
LO - IF Isolation 1610-1640MHz	dB	25.0	30.0	—
Input IP3 @ LO Power +17dBm	dBm	26	30.0	—
Input IP3 @ LO Power +15dBm	dBm	23	27.0	—
RF VSWR 1850-1910MHz	—	—	1.5:1	1.8:1
IF VSWR 240.1MHz	—	—	1.5:1	1.8:1
LO VSWR @ LO Power +17dBm 1850-1910MHz	—	—	1.5:1	1.8:1
RF VSWR @ LO Power +15dBm 1850-1910MHz	—	—	1.7:1	2.0:1
Noise Figure	dBm	—	8.5	9.0

## Absolute Maximum Ratings

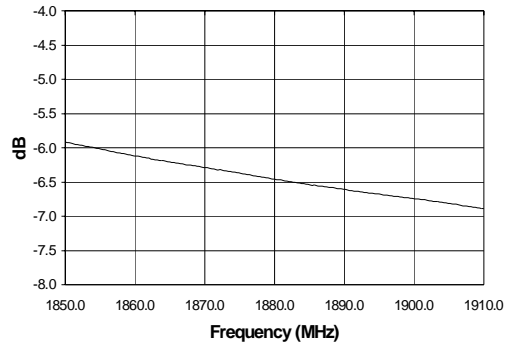
Parameter	Absolute Maximum
RF Input Power	+20dBm
LO Drive Power	+27dBm
Peak IF Current	30mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

## Pin Configuration

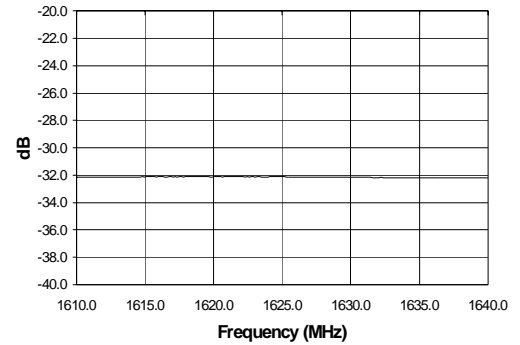
Function	Pin No.
RF	1
LO	2
IF	3
Ground	4,5,6

## Typical Performance @ +25°C

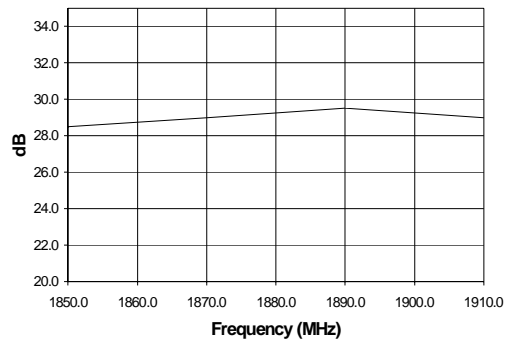
### Conversion Loss



### L-I Isolation



### IIP3



### L-R Isolation

