



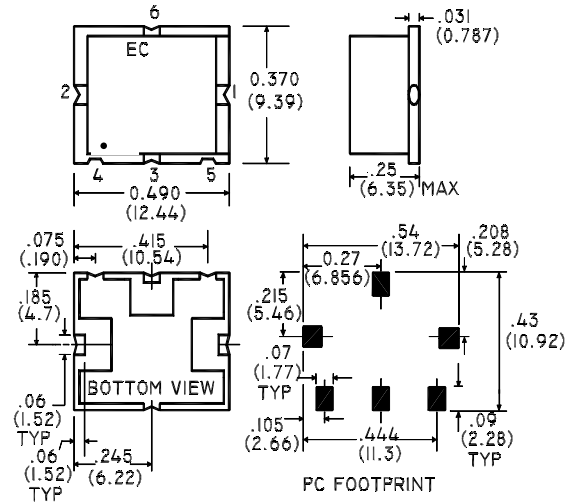
# E-Series Surface Mount Mixer 1700-2000 MHz

## Features

- LO Power +11 to +23dBm
- Surface Mount
- +21dBm 1dB Compression



## SM-2 Package



## Description

M/A-COM's MAMXES0008 is a Low Cost, Passive Double Double Balanced Mixer. Typical applications include frequency up/down conversion, modulation, demodulation in systems such as cellular receivers and transmitters for DCS 1800, PCS and PHS applications.

Part Number	Packaging
MAMXES0008	Tube
MAMXES0008TR	Tape and Reel

## Electrical Specifications @ +25°C

Parameter	Units	Minimum	Typical	Maximum	Mean (x)	Sigma (σ)
Frequency Range	1700-2000MHz	—	—	—	—	—
IF 1.0 dB Bandwidth = DC - 200 MHz	—	—	—	—	—	—
Conversion Loss	1700-2000MHz	dB	9.0	9.6	—	—
L - R Isolation	1700-2000MHz	dB	12	15	—	—
Input 1dB Compression	1700-2000MHz	dB	—	21	—	—
Input IP3	1700-2000MHz	dBm	21	26	—	—
VSWR	LO Port	—	—	2.5:1	—	—
	RF Port	—	—	2.0:1	—	—
	IF Port	—	—	2.0:1	—	—

Test Conditions: LO Drive = +13dBm, IF frequency = 140MHz. Mean and Sigma calculated at 1800MHz.

S 1588 A



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**Absolute Maximum Ratings**

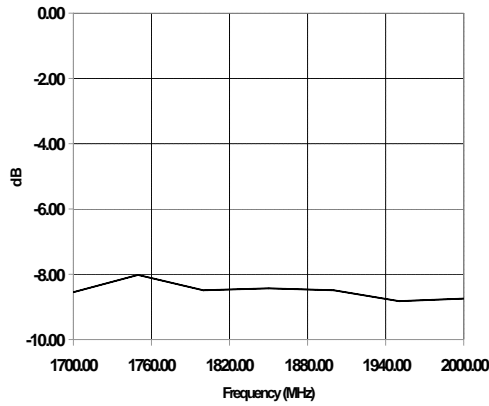
Parameter	Absolute Maximum
RF Input Power	+23dBm
LO Drive Power	+23 dBm
Operating/Storage Temperature	-40°C to +85°C

**Pin Configuration**

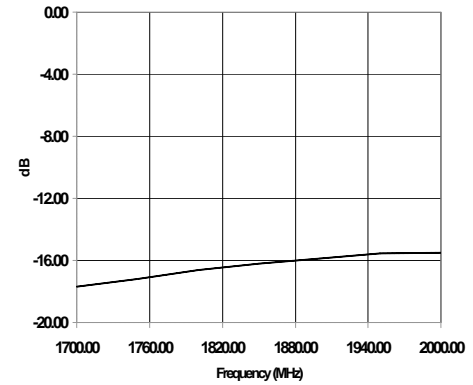
Function	Pin No.
RF	1
LO	2
IF	3
Ground	4,5,6

**Typical Performance @ +25°C**

**Conversion Loss**



**L-R Isolation**



**IIP3**

