

High IP3 Mixer

1850 - 1910 MHz

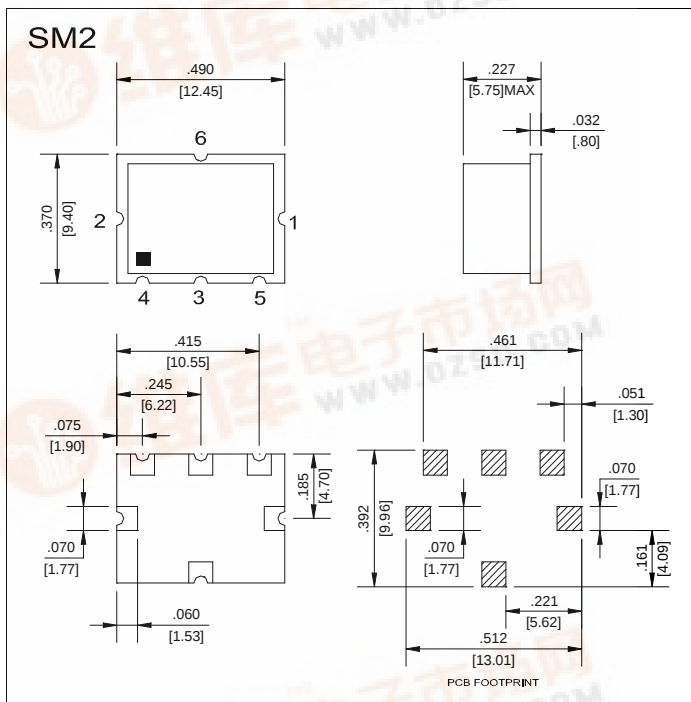
Rev B

Features:

- Very High IP3, >+30.0dBm
- Small SMT footprint
- +18dBm LO drive

Description

M/A Com's MAMXES0080 uses a novel PHEMT FET design to achieve very high linearity without external biasing.



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

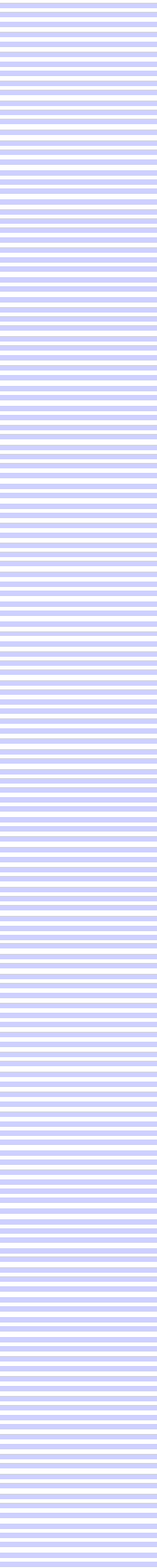
Ordering Information

Part Number	Package
MAMXES0080	Tape & Reel

Electrical Specifications: 25°C, Impedance = 50 Ω

Parameter	Frequency (MHz)	Units	Minimum	Typical	Maximum
Frequency Range	RF: 1850-1910 LO: 1680-1740 IF: 170				
Conversion loss	1850-1910	dB	-	8.0	9.5
L-R Isolation	1680-1740	dB	18.0	22.0	-
L-I Isolation	1680-1740	dB	25.0	33.0	-
R-I Isolation	1680-1740	dB	30.0	37.0	-
LO VSWR	1680-1740	-	-	2.6	-
RF VSWR	1850-1910	-	-	2.6	-
IF VSWR	100-300	-	-	1.4	-
Input IP3	Downconverting	dBm	30.0	35.0	-
1dB Compression		dBm	-	22.0	-
Noise Figure		dB	-	-	10.5

MAMXES0080



Absolute Maximum Ratings

Parameter	Maximum
RF input power	+22dBm
Peak IF current	40mA
Operating temperature	-40°C - +85°C
Storage temperature	-40°C - +85°C

Pin Configuration

Function	Pin #
RF	1
LO	2
IF	3
Ground	4,5,6