

High IP3 Mixer with LO Amplifier

Rev B

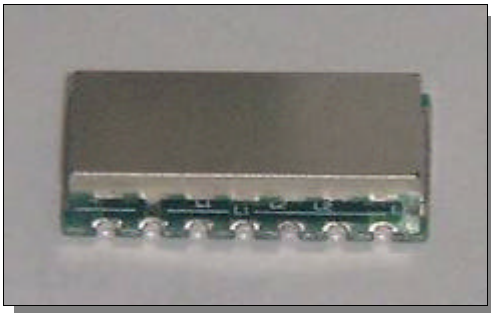
823 - 851 MHz

Features:

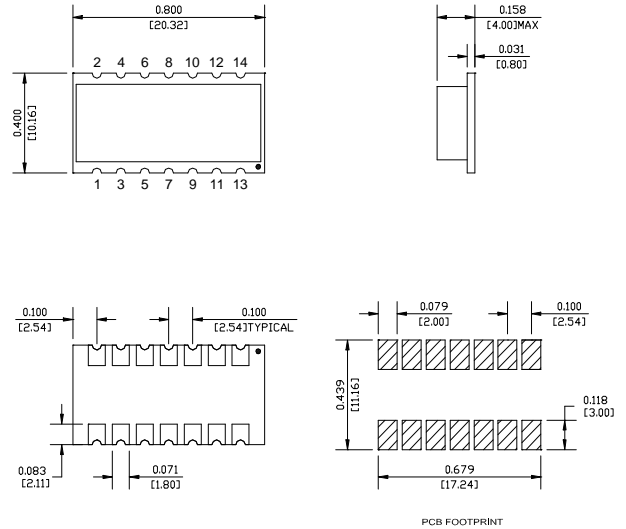
- Very High IP3, >+30dBm
- SMT footprint
- 0dBm LO drive

Description

M/A Com's MAMXES0075 uses a novel PHEMT FET design to achieve very high linearity without external biasing. A Low Noise Amplifier is included at the LO port which is saturated during operation.



SM-106



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

Ordering Information

Part Number	Package
MAMXES0075	Tape & Reel

Electrical Specifications: 25°C, Impedance = 50 Ω, DC Bias = 5V +/-0.3V, LO drive = 0dBm +/-2dBm

Parameter	Frequency (MHz)	Units	Minimum	Typical	Maximum
Frequency Range	RF: 823-851 LO: 735-762 IF: 85-90				
Conversion loss	823-851	dB	-	8.4	8.8
L-R Isolation	735-762	dB	0	5.0	-
L-I Isolation	735-762	dB	25.0	30.0	-
R-I Isolation	823-851	dB	20.0	25.0	-
LO VSWR	735-762	-	-	2.0	-
RF VSWR	823-851	-	-	1.5	-
IF VSWR	85-90	-	-	1.5	-
Input IP3	Downconverting	dBm	30.0	34.0	-
1dB Compression		dBm	-	20.0	-

MAMXES0075

Absolute Maximum Ratings

Parameter	Maximum
RF input power	200mW
Peak IF current	130mA
Operating temperature	-40°C - +85°C
Storage temperature	-40°C - +85°C

Pin Configuration

Function	Pin #
RF	14
LO	2
IF	13
Ground	1,3,4,5,6,7,9,10,11,12
DC	8

Specification subject to change without notice.

North America: (800) 366-2266

Asia/Pacific: +81-44-844-8296

Europe: +44 (1344) 869 595

Visit www.macom.com for additional datasheets and information.

