

RoHS Compliant



MAMX-007242-ES0103 V1 P

E-Series Surface Mount High IP3 Mixer 235 – 245 MHz

Features

- LO Power +17 to +21 dBm
- High IP3 >+30 dBm
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant version of the MAMXES0103

Description

M/A-COM's MAMX-007242-ES0103 is a RoHS Compliant Low Cost Mixer designed for use in high volume wireless applications. The device uses a novel FET design to achieve very high linearity without external biasing. The MAMX-007242-ES0103 is available in an SM-2 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles. Parts are packaged in tape & reel.

Ordering Information

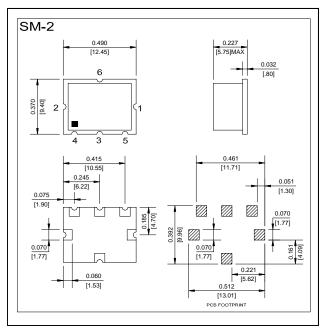
Part Number	Package	
MAMX-007242-ES0103	Tape and Reel (500 piece Reel)	

Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum			
RF Input Power	+22 dBm			
Peak IF Current	30mA			
Operating Temperature	-40°C to +85°C			
Storage Temperature	-65°C to +125°C			

- Exceeding any one or combination of these limits may cause permanent damage to this device.
- 2. M/A-COM does not recommend sustained operation near these survivability limits.

SM - 2 Package



Pin Configuration

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

This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.

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- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.



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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$, LO = +17 to +21 dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	-	235 - 245	MHz	_	_	_
LO Frequency	_	255.36	MHz	_	_	_
IF Frequency	_	10.36 - 20.36	MHz	_	_	_
Conversion Loss	_	235 - 245	dB	_	6.0	7.5
Isolation	LO to RF	10 - 2000	dB	35.0	40.0	_
Isolation	LO to IF	10 - 2000	dB	35.0	45.0	_
Isolation	RF to IF	235-245	dB	35.0	45.0	_
LO Return Loss	_	255.36	dB	6	_	_
RF Return Loss	_	235-245	dB	10	_	_
IF Return loss	_	10.36-20.36	dB	10	_	_
Input IP3	_	235-245	dBm	30.0	36.0	_
Noise Figure	_	235-245	dBm		7.0	9.5
1 dB Compression	_	_	dBm	_	22.0	_

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