

RoHS Compliant



E-Series Surface Mount Mixer 880 – 915 MHz

MAMXES0120 V2

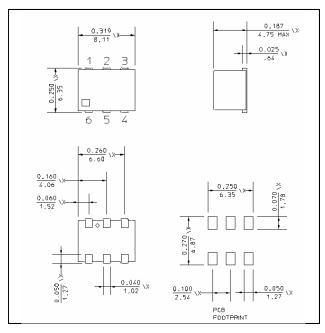
Features

- LO Power +17 dBm
- Up to +13 dBm RF
- Surface Mount
- RoHS* Compliant version of the EMRS-6HX1
- Tape and reel packaging available

Description

M/A-COM's MAMXES0120 is a RoHS compliant device that is equivalent to the EMRS-6HX1 mixer. This device is a Low Cost, Low Drive, surface mount Mixer designed for use in high volume wireless applications. The MAMXES0120 mixer is offered in an SM-1 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles.

Outline Drawing — SM-1



Electrical Specifications: @ -10° C — $+85^{\circ}$ C, $Z_0 = 50$ Ohms, LO = +17dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	880 - 915	MHz	_	_	_
LO Frequency	_	1000 - 1130	MHz	_	_	_
IF Frequency	_	150 - 170	MHz	_	_	_
Conversion Loss	_	880 - 915 MHz	dB	_	5.5	8.0
Isolation (LO - RF)	_	1000 - 1130 MHz	dB	25	30	_
Isolation (LO - IF)	_	1000 - 1130 MHz	dB	25	30	_
RF Input for 1 dB Compression	-	_	dBm	_	_	+13
IIP3	_	880 - 915	dBm	23	27	_
RF VSWR	_	880 - 915	Ratio	1.7:1	2.0:1	2.3:1
LO VSWR	_	880 - 915	Ratio	1.3:1	1.5:1	1.8:1
IF VSWR	_	880 - 915	Ratio	1.0:1	1.2:1	1.4:1

Ordering Information

Part Number		Package		
	MAMXES00120	Tape and Reel (900 pieces/ Reel)		

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

[•] North America Tel: 800.366.2266 / Fax: 978.366.2266

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298



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Pin Configuration

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

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
Max RF Power	50 mW
Peak IF Current	40 mA
Pin Temperature (10 seconds)	260° C
Operating Temperature	-10°C to +85°C
Storage Temperature	-55°C to +125°C

1. Operation of this device above any one of these parameters may cause permanent damage.

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