

E-Series Surface Mount Mixer 925 – 960 MHz & 1805 – 1880

MAMX-008782-ES0118 V1

Features

- LO Power +7 dBm
- Up to +7 dBm RF
- Surface Mount
- RoHS* Compliant version of the EMRS-6X1
- Tape and reel packaging available

Description

M/A-COM's MAMX-008782-ES0118 is a RoHS compliant device that is equivalent to the EMRS-6X1 mixer. This device is a Low Cost, Low Drive, surface mount Mixer designed for use in high volume wireless applications. The MAMX-008782-ES0118 mixer is offered in an SM-87 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles.

SM-87 Package

Electrical Specifications: @ -55°C — +100°C, $Z_0 = 50$ Ohms, LO = +7dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency (1)	_	1805 - 1880	MHz	_	_	_
LO Frequency (1)	_	95	MHz	_	_	_
IF Frequency (1)	_	1710 - 1785	MHz	_	_	_
RF Frequency (2)	_	925 - 960	MHz	_	_	_
LO Frequency (2)	_	45	MHz	_	_	
IF Frequency (2)	_	820 - 915	MHz	_	_	_
Conversion Loss	_	1805 - 1880 925 - 960	dB dB	8.5 6.5	9.5 7.0	11.0 9.0

Ordering Information

Part Number		Package		
	MAMX-008782-ES0118	Tape and Reel (900 pieces/ Reel)		

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

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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Visit www.macomtech.com for additional data sheets and product information.

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Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Isolation	LO to RF	95 & 45	dB	25	35	55
Isolation	LO to IF	95 & 45	dB	25	30	40
Input 1 dB Compression	_	5 - 2500	dBm	_	_	7
RF VSWR	_	_	Ratio	1.3:1	2.4:1	3.0:1
LO VSWR	_	_	Ratio	1.4:1	1.6:1	1.8:1
IF VSWR	_	_	Ratio	1.1:1	1.4:1	1.8:1

Pin Configuration

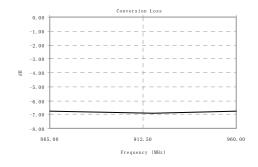
Pin No.	Function
1	LO I/P
2	Ground
3	Ground
4	RF O/P
5	IF I/P
6	Ground

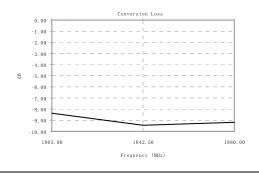
Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
Max RF Power	50 mW
Peak IF Current	40 mA
Pin Temperature (10 seconds)	260° C
Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +125°C

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

Typical Performance Curves





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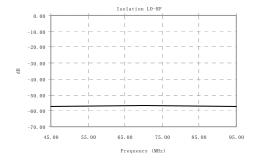
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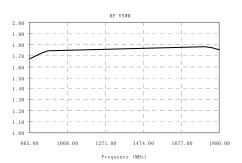
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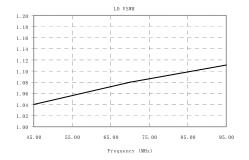


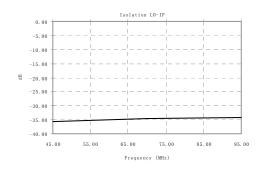
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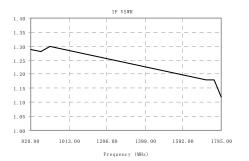
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