

F-Series Surface Mount Mixer 880 - 915 MHz

MAMX-008786-ES0120

Features

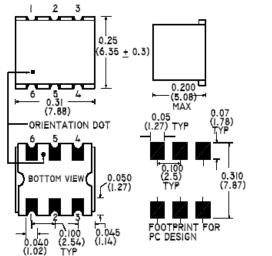
- LO Power +17 dBm
- Up to +13 dBm RF
- Surface Mount
- RoHS* Compliant version of the EMRS-6HX1
- Tape and reel packaging available

Description

M/A-COM's MAMX-008786-ES0120 is a RoHS compliant device that is equivalent to the EMRS-6HX1 mixer. This device is a Low Cost, High Drive, surface mount Mixer designed for use in high volume wireless applications. The MAMX-008786-ES0120 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

NOTE: NON HERMETIC PACKAGE



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	_	1000-1130	Ratio	1.3:1	1.5:1	1.8:1
IF VSWR	_	150-170	Ratio	1.0:1	1.2:1	1.4:1

Ordering Information

Part Number	Package		
MAMX-008786-ES0120	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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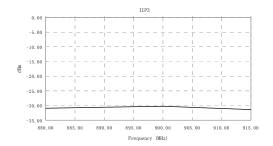
Visit www.macomtech.com for additional data sheets and product information.

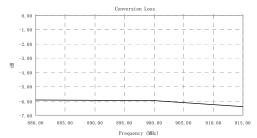


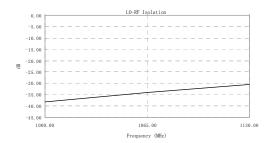
E-Series Surface Mount Mixer 880 - 915 MHz

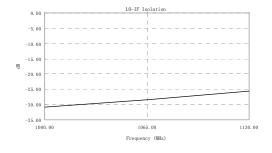
Pin Configuration

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







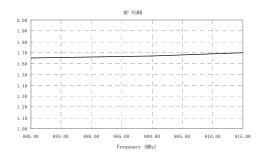


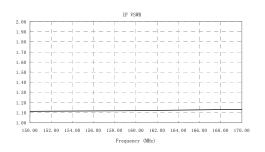
MAMX-008786-ES0120

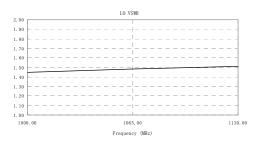
Absolute Maximum Ratings 1

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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