Frequency Mixer

Level 17 (LO Power + 17 dBm)

Important Note

This is a non-catalog model and can be manufactured on specific request. Pricing and delivery information can be supplied upon request.

Please click "Back", and then click "Contact Us" for Applications support.

SRA-6H+



CASE STYLE: A01

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C						
Parameter		Min.	Тур.	Max.	Units	
Frequency	LO (fL to fu)	.01		50	MHz	
	RF (f∟ to f∪)	.01		50	MHz	
	IF	DC		50	MHz	
Conversion Loss	mid band		4.97	6	dB	
	Total Range			7	dB	
LO-RF Isolation	Low Range	45	50		dB	
	Mid Range	30	45		dB	
	Upper Range	25	35		dB	
LO-IF Isolation	Low Range	40	50		dB	
	Mid Range	35	47		dB	
	Upper Range	25	32		dB	

Note: Low Range = [fL to 10fL] mid band = [2fL to fu/2] Mid Range = [10fL to fU/2]

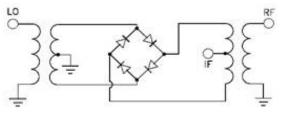
Upper Range = [fU/2 to fU]

MAXIMUM RATINGS				
Operating Temperature	-55°C to +100°C			
Storage Temperature	-55°C to +100°C			
RF Power	200 mW			
IF Current	40 mA			

PIN CONNECTIONS				
LO	8			
RF	1			
IF	3 & 4^			
GROUND EXT.	2,5,6,7			
GROUND CASE	2			

[^] pins must be connected together externally

Electrical Schematics







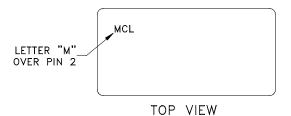
Case Style

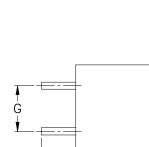
A

Outline Dimensions

A01 A04 A05

A06





E/F 2 4 6 8

BOTTOM VIEW

J/H C/D SIDE VIEW

CASE#	A	В	С	D	Е	F	G	Н	J	K	WT, GRAM
A01			.385 (9.78)	.400 (10.16)							5.2
A04	.770	.800	.200 (5.08)	.210 (5.33)	.370	.400	.200	.20	.14	.031	3.7
A05	(19.56) (20.32)	.240 (6.10)	.250 (6.35)	(9.40)	(10.16)	(5.08) (5.08)	(3.56)	(.79)	3.7		
A06			.285 (7.24)	.310 (7.87)							5.2

Dimensions are in inches (mm). Tolerances: 2 Pl. \pm .03; 3 Pl. \pm .015

Notes:

- **1.** Header material: C.R.S. Pin material: #52 alloy.
 - Cover material: Cupro-Nickel.
- **2.** Pin finish: Electro Tin-Silver.
- 3. Insulated spacer available. Request P/N B14-045-01.
- **4.** Tolerance on pin diameter +/-.005 inch.
- 5. Glass meniscus 0.015 inch max.
- **6.** Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.



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Mini-Circuits ISO 9001 & ISO 14001 Certified



Environmental Specifications

ENV01

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

-55° to 100° C Ambient Environment	Individual Model Data Sheet		
-55° to 100° C Ambient Environment	Individual Model Data Sheet		
-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C		
20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D		
50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A		
10 cycles, 24 hours per cycle	MIL-STD-202, Method 106, Condition A, except 50°C and end point electrical test done within 12 hours		
10X Magnification	J-STD-002, 95% Coverage		
260°C for 10 seconds	MIL-STD-202, Method 210, Condition B		
Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215		
4 1/2 Pound Pull	MIL-STD-202, Method 211, Condition A		
	-55° to 100°C, 100 cycles 20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36) 50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes 10 cycles, 24 hours per cycle 10X Magnification 260°C for 10 seconds Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C		

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ENV01

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Specification	Test/Inspection Condition	Reference/Spec
Gross Leak	125°C Bubble Test	MIL-STD-202, Method 112, Condition D
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D

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