Frequency Mixer wide BAND

ZX05-43MH+

Level 13 (LO Power +13 dBm) 824 to 4200 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
D 11 7	60 E 5 T

Coaxial Connections

LO	2
RF	3
IF	1

- wide bandwidth, 824 to 4200 MHz
- low conversion loss, 6.1 dB typ.
- excellent L-R isolation, 35 dB typ.
- rugged construction
- small size
- useable as up and down converter
- protected by US patents, 6,790,049 and 7,027,795

Applications

- cellular
- · defense and weather radar
- defense communications
- PCN
- WCDMA
- WIFI
- · blue tooth
- VSAT
- ISM

ZX05-43MH-S+

Model

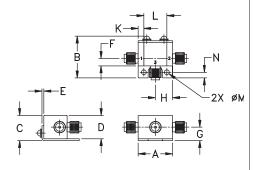
Connectors

SMA

CASE STYLE: FL905

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

Outline Drawing



Outline Dimensions (inch)

G	г		U	C	D	А	
.29	.16	.04	.50	.54	.90	.74	
7.37	4.06	1.02	12.70	13.72	22.86	18.80	
wt	N	M	L	K	J	Н	
grams	.122	.106	.496	.122	_	.37	
20.0	3.10	2 69	12 60	3 10		9.40	

Electrical Specifications

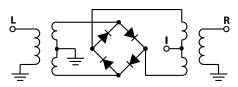
(M	UENCY Hz)	CONV	ERSION (dB)	LOSS*	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)
LO/RF f _L -f _U	IF	Тур.	σ	Max.	Тур.	Min.	Тур.	Min.	Тур.
824-4200	DC-1500								
824-2500		6.3	0.1	8.6	37	28	24	7	20
2500-4200		5.7	0.1	9.8	30	22	20	11	22

1 dB COMPR.: +9 dBm tvp.

Typical Performance Data

Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)
RF	LO	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
810.00 1010.00 1210.00 1410.00 1610.00 1810.00 2010.00 2210.00 2410.00 2610.00 3010.00 3210.00 3410.00 3610.00 3810.00 4010.00 4110.00	840.00 1040.00 1240.00 1440.00 1640.00 1840.00 2040.00 2240.00 2440.00 2640.00 3040.00 3440.00 3640.00 3840.00 3840.00 4040.00 4140.00	7.06 6.43 5.83 5.82 5.70 6.00 5.93 5.94 5.12 5.44 5.15 4.63 4.96 5.46 6.47 6.88 7.75 7.74	38.11 43.16 41.09 34.44 33.13 35.10 33.76 34.33 31.89 31.05 29.56 27.17 25.87 25.97 24.80 25.65 26.66 26.80	22.81 26.73 30.74 34.76 29.18 19.67 11.58 11.64 14.42 17.41 19.09 21.48 25.21 24.10 20.53 18.07 17.01 15.46	2.08 2.83 3.45 3.53 3.12 3.21 3.28 3.33 2.18 2.43 1.88 1.70 1.92 2.11 3.34 3.76 5.03 5.14	8.55 2.44 1.27 1.16 1.61 1.77 1.62 1.85 2.27 2.37 1.72 1.64 1.37 1.34 1.88 2.58 3.83 4.62
4150.00 4210.00	4180.00 4240.00	7.92 7.83	26.85 26.88	15.58 15.04	5.44 5.07	4.84 5.28

Electrical Schematic

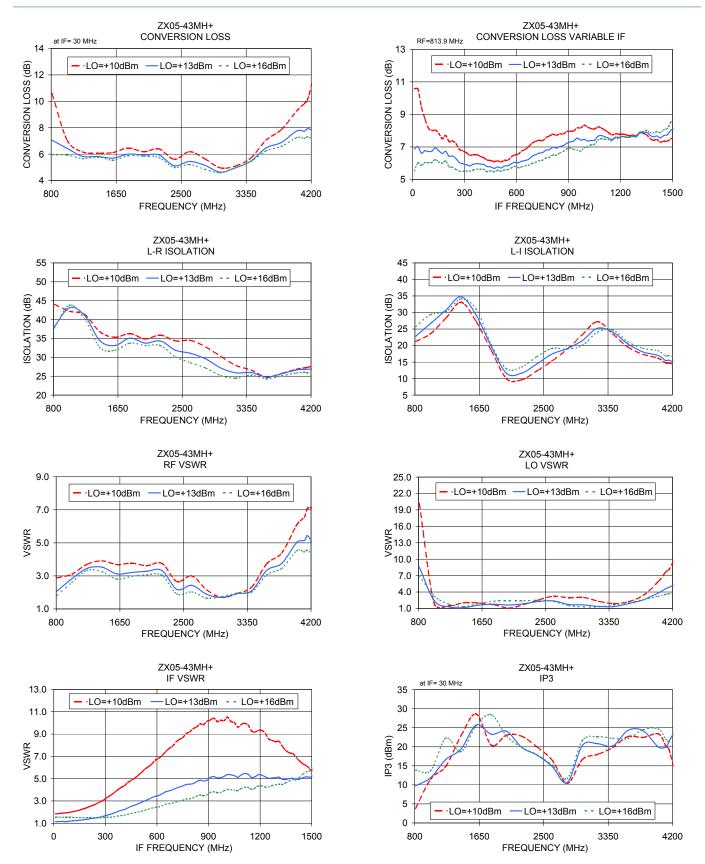


- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits website at www.ninicircuits.com/MCLStore/terms.jsp

 $^{^{\}star}$ Conversion loss at 30 MHz IF. σ is a measure of repeatability from unit to unit.



Notes
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