

# Up Converter Frequency Mixer

## ZX05-U63+

Level 7 (LO Power +7 dBm) 1600 to 6000 MHz



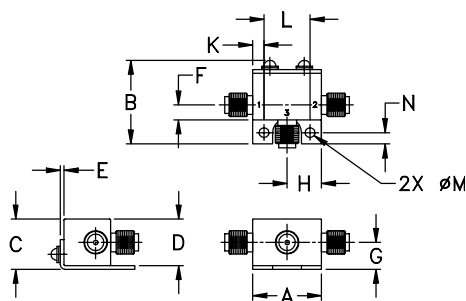
### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
IF Power	50mW
Permanent damage may occur if any of these limits are exceeded.	

### Coaxial Connections

LO	3
IF (IN)	1
RF (OUT)	2

### Outline Drawing



### Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37
H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

### Features

- up converter mixer
- low conversion loss, 7.0 dB typ.
- high L-R isolation, 40 dB typ.
- rugged construction
- small size
- protected by US patents, 7,027,795 and 6,790,049

### Applications

- ISM
- wide band receivers
- blue tooth
- VSAT
- WIFI

CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-U63+	\$46.95	(1-24)

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Electrical Specifications

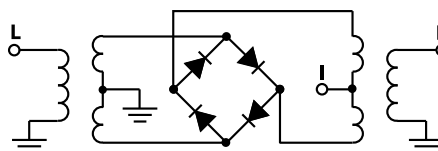
FREQUENCY (MHz)			CONVERSION LOSS* (dB)			LO-IF (IN) ISOLATION (dB)		LO-RF (OUT) ISOLATION (dB)		IP3 at center band (dBm)
IF (IN)	LO	RF (OUT)	Typ.	$\sigma^{**}$	Max.	Typ.	Min.	Typ.	Min.	Typ.
1600-2500	3100-5700	3800-6000	7.0	0.3	8.6	17	13	40	28	10

1 dB COMPR. +1.0 dBm typ.  
\* Conversion Loss at 2400 MHz IF  
\*\*  $\sigma$  is a standard deviation

### Typical Performance Data

Frequency (MHz)	Conversion Loss (dB)		Isolation L-I (dB)		Isolation L-R (dB)		VSWR RF (OUT) Port (:1)		VSWR LO Port (:1)	
	LO	RF	LO	RF	LO	RF	LO	RF	LO	RF
	+7dBm	+7dBm	+7dBm	+7dBm	+7dBm	+7dBm	+7dBm	+7dBm	+7dBm	+7dBm
2400.00	3100.10	5500.10	6.17	16.49	43.23	1.28	2.63			
2400.00	3125.10	5525.10	6.03	16.60	41.99	1.31	2.57			
2400.00	3150.10	5550.10	6.19	16.53	42.24	1.34	2.54			
2400.00	3175.10	5575.10	6.30	16.46	43.35	1.37	2.57			
2400.00	3200.10	5600.10	6.30	16.71	42.95	1.43	2.60			
2400.00	3225.10	5625.10	6.38	16.80	42.05	1.45	2.55			
2400.00	3250.10	5650.10	6.37	16.71	41.76	1.50	2.52			
2400.00	3275.10	5675.10	6.61	16.51	42.22	1.52	2.54			
2400.00	3300.10	5700.10	6.59	16.57	42.29	1.62	2.58			
2400.00	3325.10	5725.10	6.66	16.94	40.24	1.65	2.56			
2400.00	3350.10	5750.10	6.89	16.75	40.18	1.70	2.53			
2400.00	3375.10	5775.10	6.84	16.30	41.20	1.70	2.53			
2400.00	3400.10	5800.10	7.06	16.52	40.60	1.81	2.58			
2400.00	3450.10	5850.10	7.15	16.33	39.88	1.86	2.51			
2400.00	3475.10	5875.10	7.21	16.25	40.24	1.88	2.51			
2400.00	3500.10	5900.10	7.43	16.51	39.03	1.92	2.53			
2400.00	3525.10	5925.10	7.41	16.57	39.03	1.98	2.52			
2400.00	3550.10	5950.10	7.56	16.26	39.25	1.90	2.52			
2400.00	3575.10	5975.10	7.58	16.39	39.63	1.97	2.53			
2400.00	3600.10	6000.10	7.53	16.24	39.48	1.89	2.53			

### Electrical Schematic



**Mini-Circuits**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's 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-Circuit's website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

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091007

# Performance Charts

# ZX05-U63+

