

Up Converter Frequency Mixer

Level 17 (LO Power +17 dBm) 0.1 to 3900 MHz

ZX05-U432H+



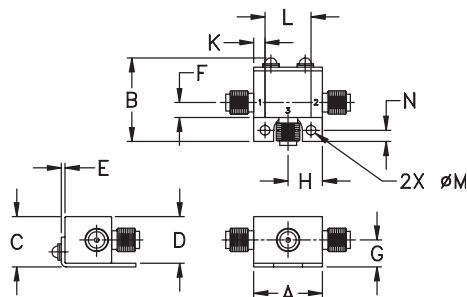
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
IF Power	100mW
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, 7.5 dB typ.
- high IP3, 26 dB typ.
- rugged construction
- small size
- protected by US patents, 6,790,049 and 7,027,795

Applications

- WIMAX
- wide band receivers

CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-U432H-S+	\$48.95	(1-24)

+RoHS Compliant

The +Suffix identifies 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.	σ^{**}	Max.	Typ.	Min.	Typ.	Min.	
0.1-800	1100-4250	1100-3900	7.5	0.2	9.8	24	13	35	26	26

1 dB COMPR. +14 dBm typ.

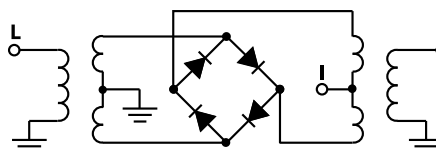
* Conversion Loss at 30 MHz IF

** σ 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)
IF (IN)	LO	RF (OUT)	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
30.00	1110.10	1080.10	5.87	16.85	43.45	2.00	1.82
30.00	1210.10	1180.10	5.54	16.93	41.98	2.34	2.00
30.00	1410.10	1380.10	5.72	19.09	41.68	2.68	2.35
30.00	1590.10	1560.10	5.92	22.40	34.55	2.45	2.54
30.00	1690.10	1660.10	6.33	23.52	36.11	2.58	2.57
30.00	1870.10	1840.10	6.61	28.49	37.13	2.13	2.62
30.00	2050.10	2020.10	6.75	39.92	36.77	1.40	2.49
30.00	2230.10	2200.10	7.31	38.90	41.79	1.55	2.42
30.00	2410.10	2380.10	6.70	35.55	36.50	2.35	1.90
30.00	2490.10	2460.10	7.17	32.90	35.94	2.31	1.90
30.00	2670.10	2640.10	7.43	27.66	36.16	3.87	1.49
30.00	2850.10	2820.10	7.24	22.55	31.49	3.50	1.26
30.00	2950.10	2920.10	6.76	23.39	32.11	2.68	1.05
30.00	3030.10	3000.10	6.31	23.71	30.81	2.34	1.09
30.00	3210.10	3180.10	6.03	26.80	33.00	2.63	1.35
30.00	3490.10	3460.10	6.50	25.83	30.89	2.01	1.63
30.00	3670.10	3640.10	6.86	24.76	29.44	1.93	1.93
30.00	3850.10	3820.10	7.23	27.98	29.14	2.22	2.47
30.00	4030.10	4000.10	8.19	29.33	30.14	3.37	2.96
30.00	4290.10	4260.10	9.02	27.06	31.38	4.26	3.37

Electrical Schematic



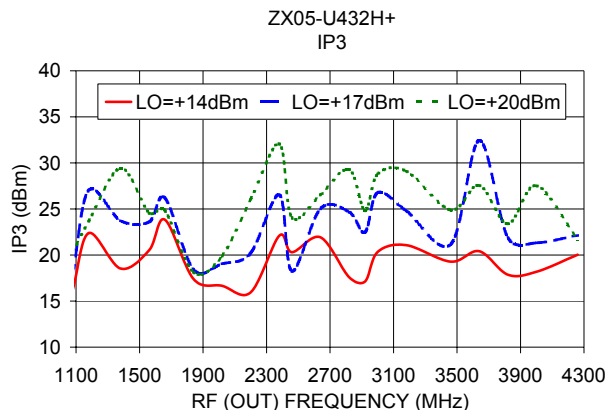
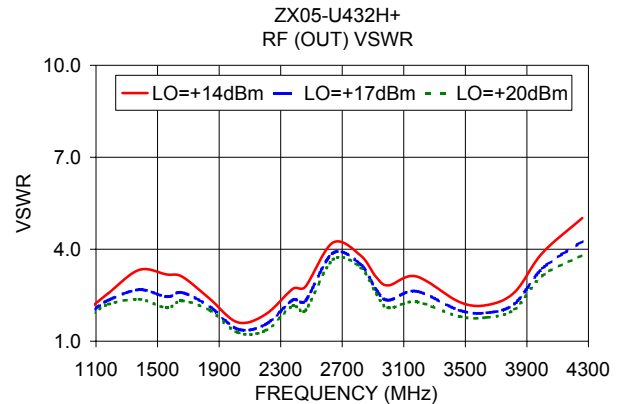
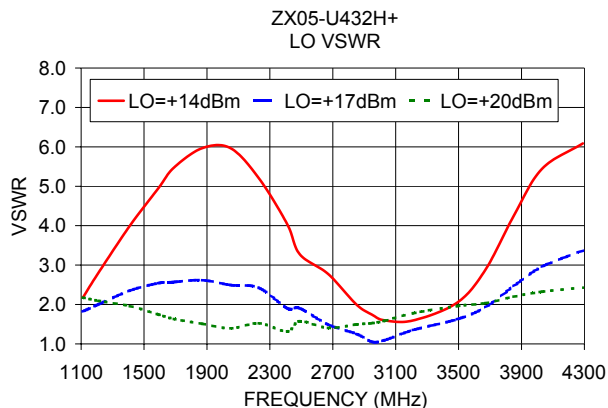
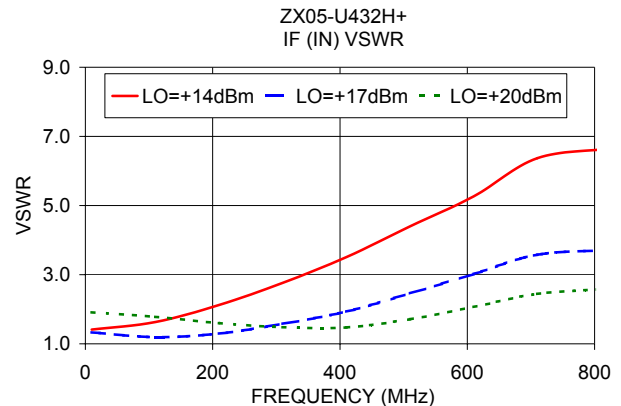
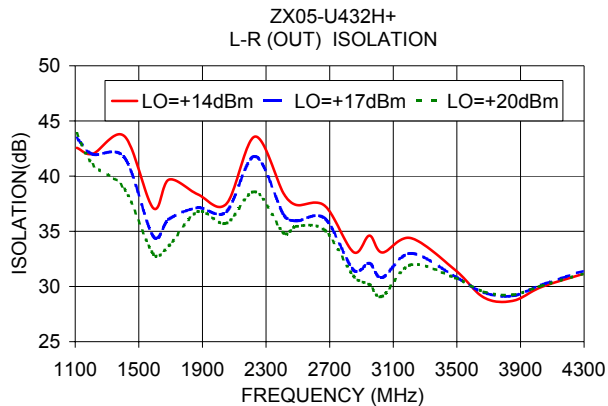
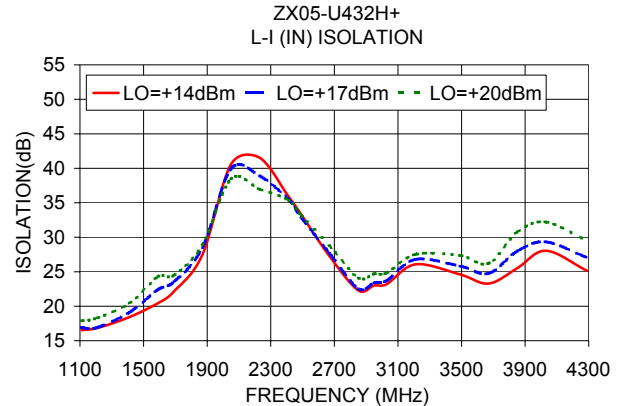
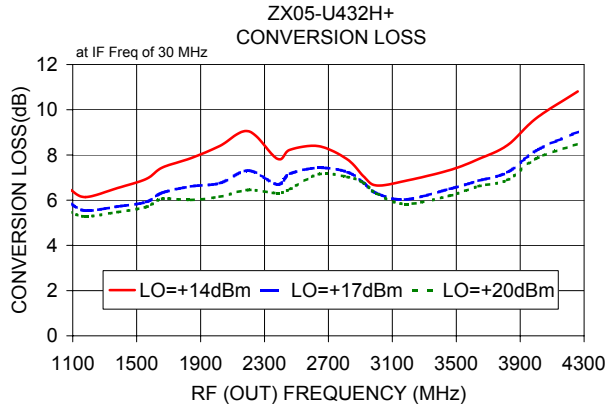
Notes

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Performance Charts

ZX05-U432H+



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