

# Up Converter Frequency Mixer

## ZX05-U432H+

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



### 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

### 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

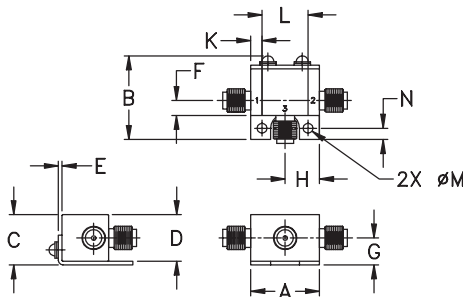
CASE STYLE: FL905

Connectors Model  
SMA ZX05-U432H-S+

**+RoHS Compliant**

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

### 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

### Electrical Specifications

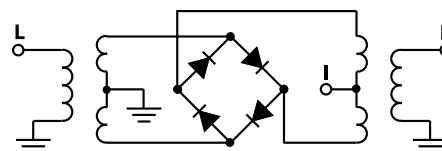
FREQUENCY (MHz)			CONVERSION LOSS* (dB)			LO-IF (IN) ISOLATION (dB)		LO-RF (OUT) ISOLATION (dB)		IP3 at center band (dBm)
IF (IN)	LO	RF (OUT)	Typ.	$\sigma^{**}$	Max.	Typ.	Min.	Typ.	Min.	Typ.
0.1-800	1100-4250	1100-3900	7.5	0.2	9.8	24	13	35	26	26

1 dB COMPR. +14 dBm typ.  
\* Conversion Loss at 30 MHz IF  
\*\*  $\sigma$  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)
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

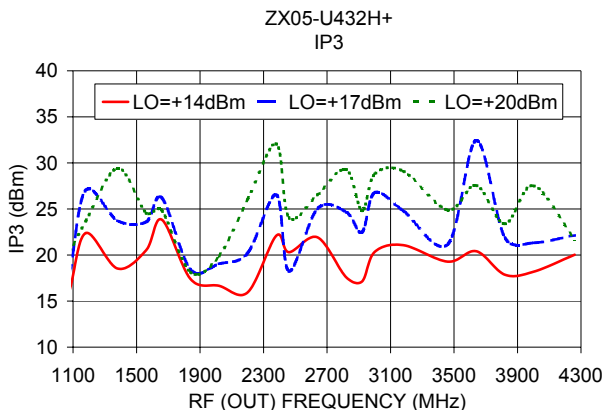
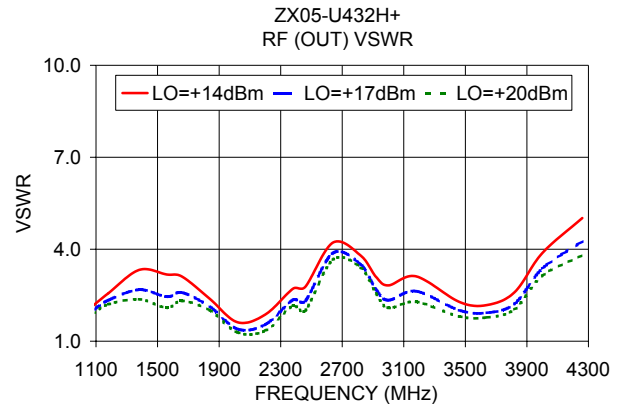
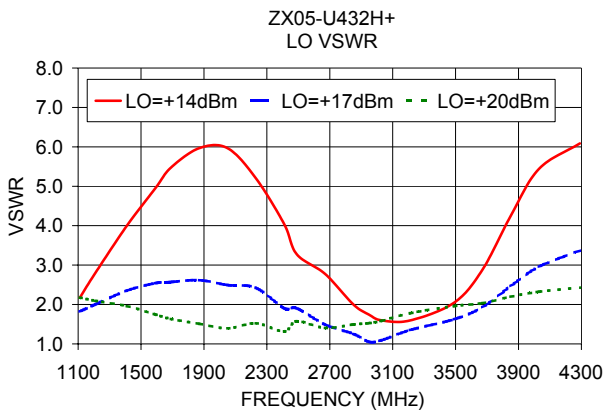
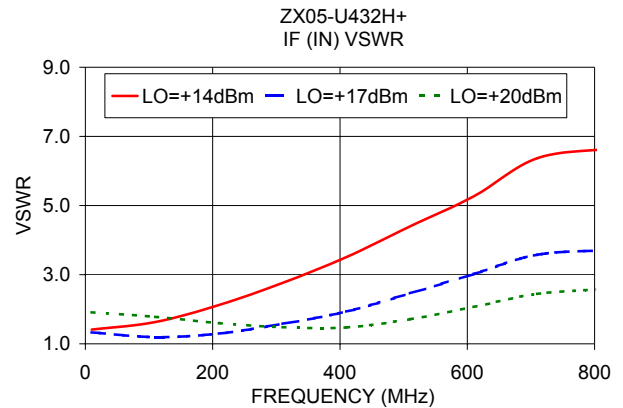
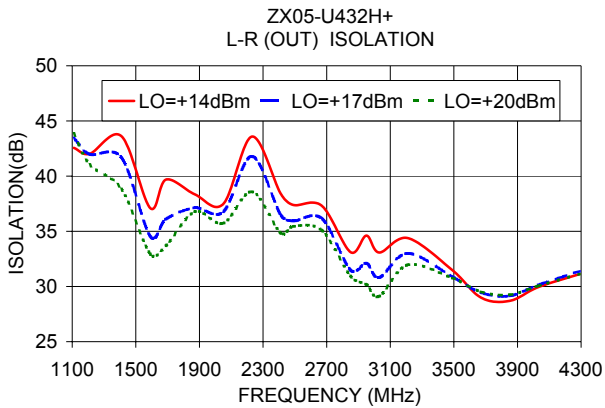
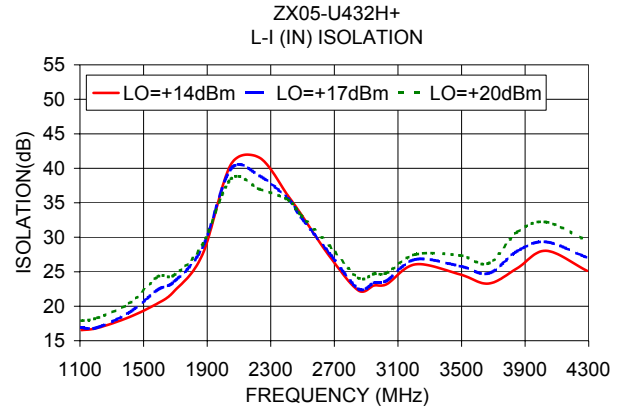
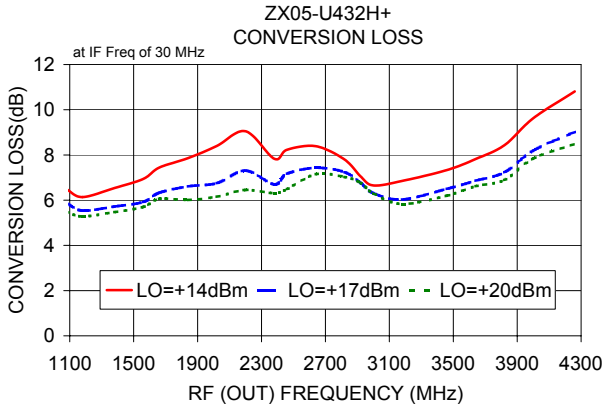
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# Performance Charts

# ZX05-U432H+



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