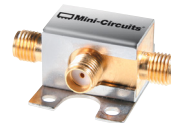


Up Converter Frequency Mixer

Level 13 (LO Power +13 dBm) 0.1 to 7400 MHz

ZX05-U742MH-S+



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	2
IF (IN)	1
RF (OUT)	3

Features

- up converter mixer
- low conversion loss, 8.3 dB typ.
- high IP3, 20 dBm typ.
- rugged construction
- small size
- protected by US patents, 6,790,049 and 7,027,795

Applications

- instrumentation
- wide band receivers
- ISM

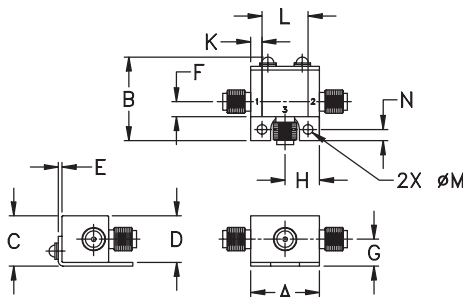
CASE STYLE: FL905

Connectors	Model
SMA	ZX05-U742MH-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.	σ^{**}	Max.	Typ.	Min.	Typ.	Min.	Typ.
0.1-3300	2300-7400	2300-7400	8.3	0.2	9.9	23	10	25	11	20

1 dB COMPR. +9 dBm typ.

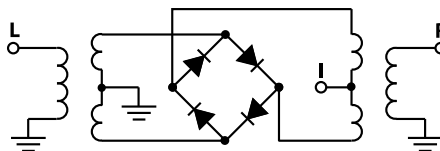
* Conversion Loss at 4075 MHz RF

** σ is a standard deviation

Typical Performance Data

Frequency (MHz)			Conversion Loss (dB)	Freq. (MHz)	Isolation L-I (dB)	Isolation L-R (dB)	VSWR LO Port (:1)	VSWR RF (OUT) Port (:1)
IF (IN)	LO	RF (OUT)	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
10.10	4085.10	4075.00	5.57	2300.10	21.13	38.74	2.92	2.95
100.10	4175.10	4075.00	5.36	2600.10	26.47	35.51	2.17	3.33
300.10	4375.10	4075.00	5.43	2900.10	28.02	30.76	1.89	3.40
500.10	4575.10	4075.00	5.56	3200.10	26.53	27.62	1.82	3.19
700.10	4775.10	4075.00	5.99	3500.10	23.07	27.19	1.96	2.47
900.10	4975.10	4075.00	6.27	3800.10	23.29	26.81	2.17	2.35
1100.10	5175.10	4075.00	7.07	4100.10	28.75	25.94	2.69	2.47
1300.10	5375.10	4075.00	7.99	4400.10	23.50	23.80	3.31	2.61
1500.10	5575.10	4075.00	8.41	4700.10	15.33	22.60	3.80	2.51
1700.10	5775.10	4075.00	8.80	5000.10	13.50	21.09	4.23	3.21
1900.10	5975.10	4075.00	8.78	5300.10	13.95	20.80	4.70	3.40
2100.10	6175.10	4075.00	8.45	5600.10	15.79	20.24	4.55	3.49
2300.10	6375.10	4075.00	7.73	5900.10	19.40	19.04	3.76	3.29
2500.10	6575.10	4075.00	7.42	6200.10	24.99	17.57	2.67	3.31
2700.10	6775.10	4075.00	7.02	6500.10	31.86	16.35	1.87	3.10
2900.10	6975.10	4075.00	6.74	6800.10	32.02	15.61	1.88	2.67
3100.10	7175.10	4075.00	6.89	7100.10	26.63	15.09	3.00	2.72
3200.10	7275.10	4075.00	7.13	7300.10	20.91	15.81	4.08	3.21
3250.10	7325.10	4075.00	7.33	7350.10	19.57	15.70	4.32	2.68
3300.10	7375.10	4075.00	7.70	7400.10	19.47	16.10	4.73	3.67

Electrical Schematic



Notes

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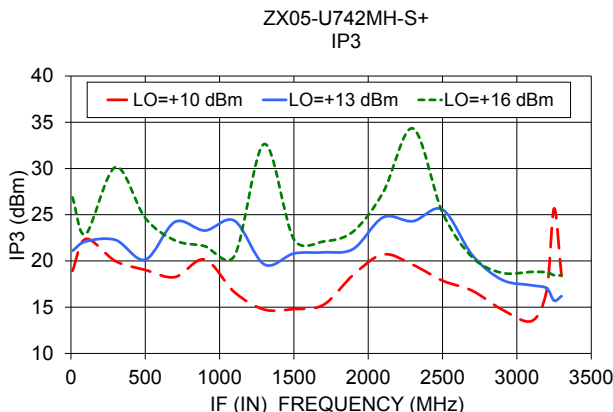
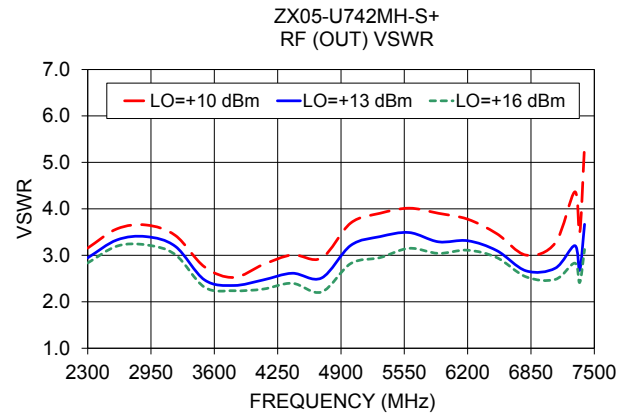
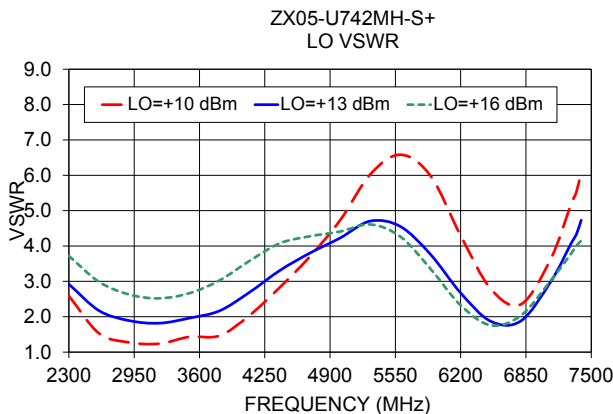
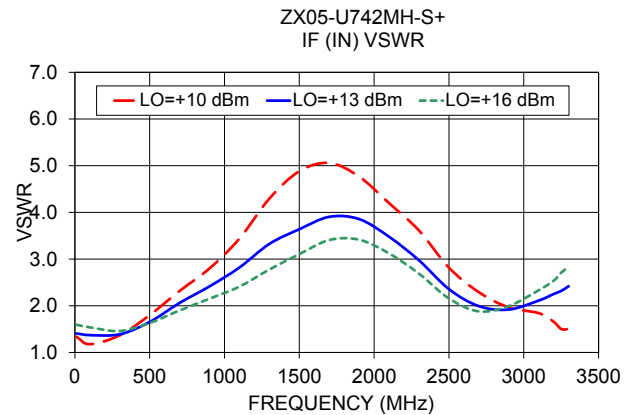
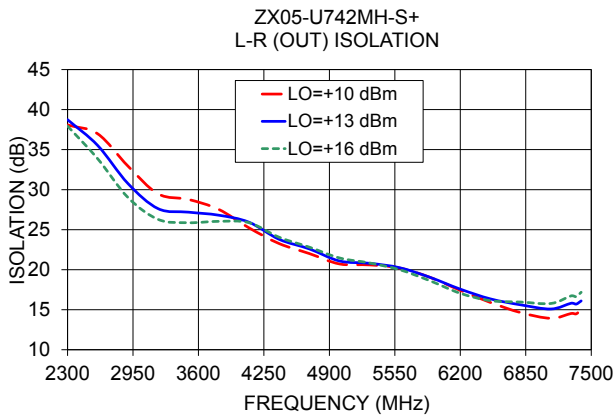
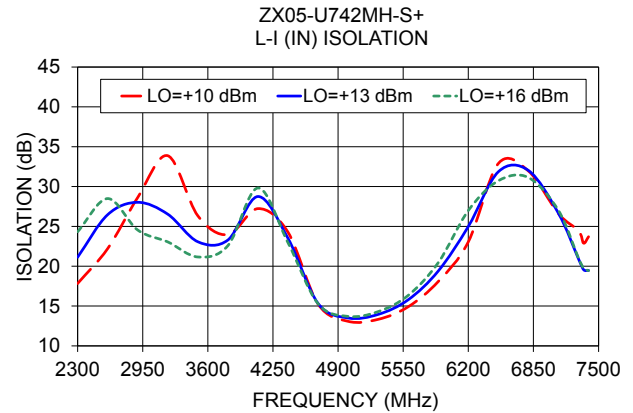
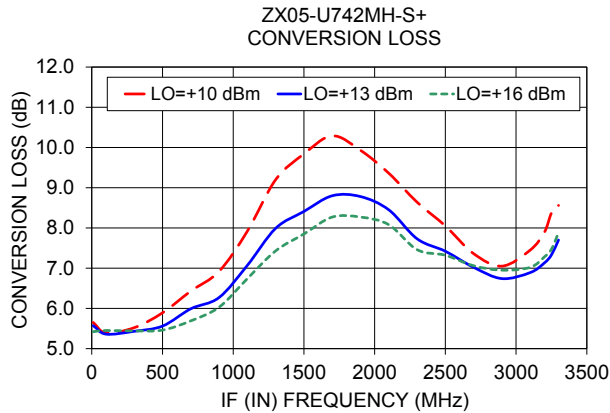


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Performance Charts

ZX05-U742MH-S+



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