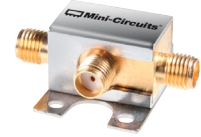


Coaxial Frequency Mixer

Level 13 (LO Power +13 dBm) 1600 to 6000 MHz

ZX05-C60MH+



CASE STYLE: FL905

Connectors	Model
SMA	ZX05-C60MH-S+

+RoHS Compliant

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

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

LO	1
RF	2
IF	3

Features

- rugged construction
- small size
- low conversion loss
- high L-R isolation
- protected by US Patents 6,790,049 & 7,027,795

Applications

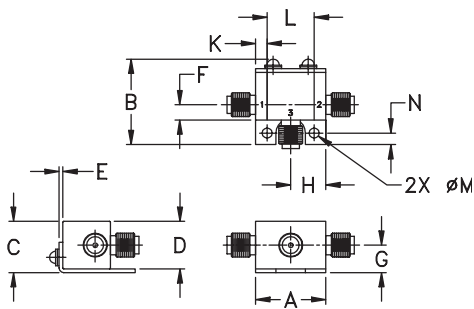
- cellular
- PCS
- instrumentation
- satellite communication

Electrical Specifications (T_{AMB}=25°C)

FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)
		Typ.	Min.	Typ.	Min.	
1600-6000	DC-2000					
1600-4400	DC-2000	6.9	0.1	8.5		15
4400-6000	DC-2000	6.0	0.1	8.5		15

1 dB COMP: +9 dBm typ.
Conversion loss specification at 30 MHz IF

Outline Drawing



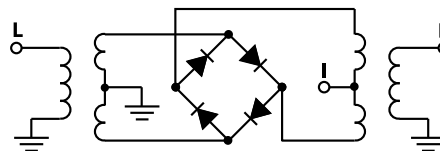
Outline Dimensions (inch/mm)

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

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
1600.10	1630.11	6.32	32.49	18.14	2.43	4.46
1833.43	1863.44	5.76	41.99	21.78	2.78	2.60
2066.77	2096.78	5.68	35.16	21.70	2.87	2.19
2300.10	2330.11	5.41	31.98	19.36	2.77	1.89
2533.43	2563.44	5.48	32.29	17.36	2.05	1.74
2766.77	2796.78	5.64	34.55	17.21	2.45	2.02
3000.10	3030.11	6.43	33.53	16.81	3.56	2.48
3233.43	3263.44	6.59	35.61	16.53	3.08	3.06
3466.77	3496.78	6.89	38.01	15.49	2.92	2.92
3700.10	3730.11	6.72	44.83	14.89	2.97	3.94
4050.10	4080.11	7.20	39.13	17.66	3.16	4.49
4283.43	4313.44	6.55	37.60	18.76	2.55	7.24
4505.10	4535.11	6.18	34.44	19.30	2.72	7.03
4718.51	4748.52	6.92	34.29	20.17	2.79	3.81
4931.93	4961.94	6.00	28.02	23.23	2.19	1.92
5145.34	5175.35	5.47	23.61	26.95	2.42	1.62
5358.76	5388.77	5.62	20.69	25.90	2.71	1.60
5572.17	5602.18	5.55	19.92	23.53	2.28	2.03
5785.59	5815.60	5.86	20.43	15.76	2.02	4.09
5999.00	5968.99	6.52	20.98	12.45	3.04	8.15

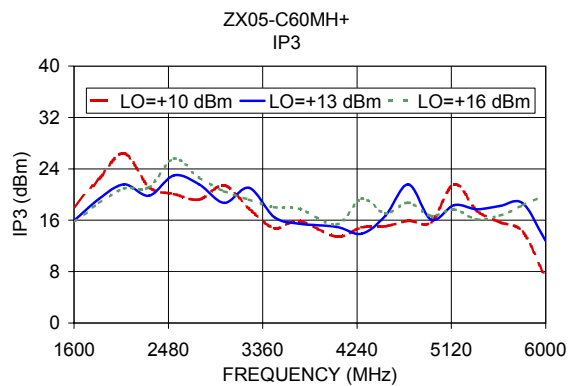
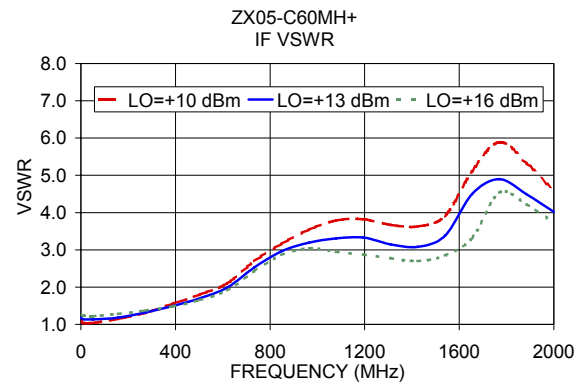
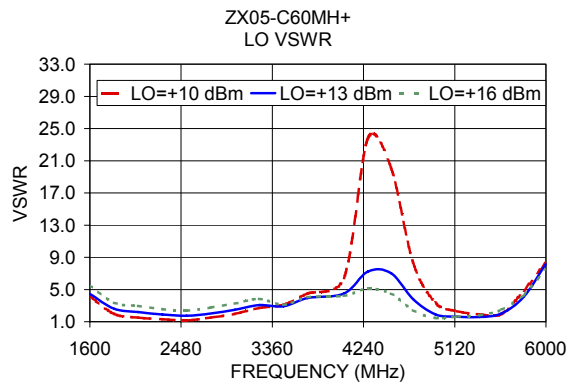
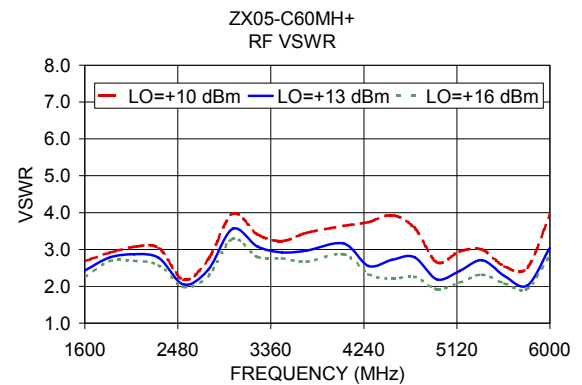
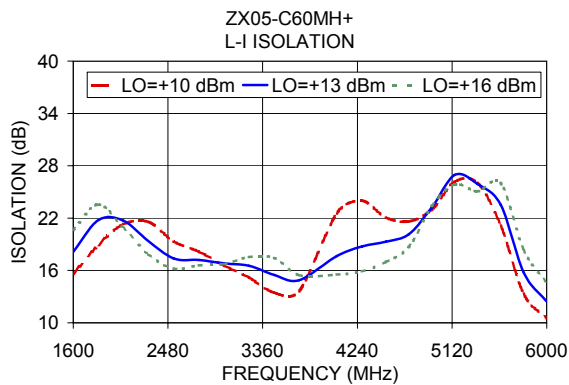
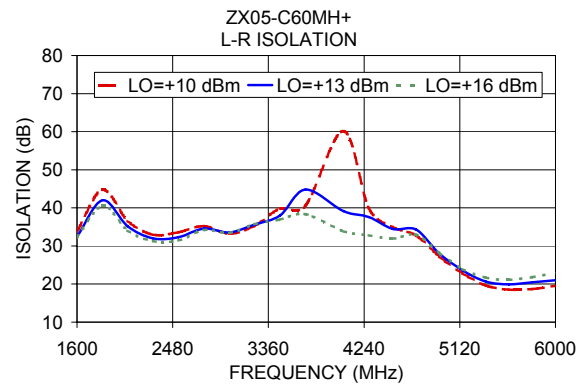
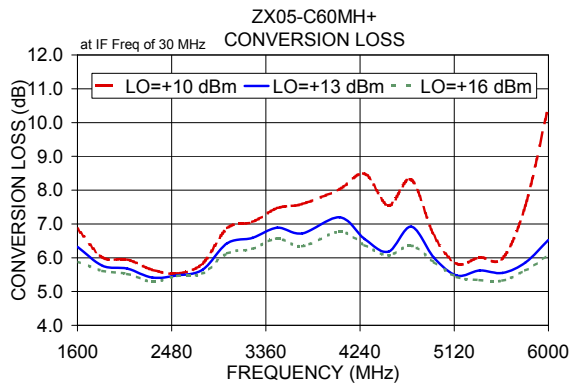
Electrical Schematic



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.
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