

Frequency Mixer

Level 10 (LO Power +10 dBm) 1600 to 6000 MHz

ZX05-C60LH+



Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
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

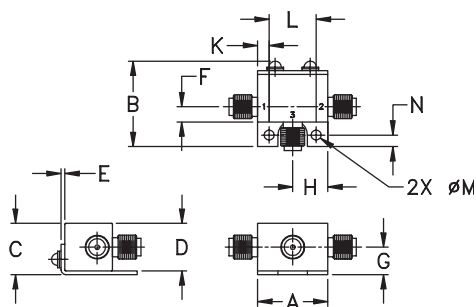
CASE STYLE: FL905

Connectors	Model	Price	Qty.
SMA	ZX05-C60LH-S+	\$38.95 ea.	(1-24)

+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 (T_{AMB}=25°C)

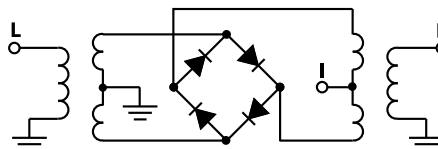
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)
LO/RF	IF	$\bar{X}$	σ	Max.	Typ.	Min.	Typ.	Min.	
$f_L - f_U$									Typ.
1600-6000	DC-2000								
1600-4400	DC-2000	6.3	0.1	8.5	35	23	17	—	13
4400-6000	DC-2000	6.0	0.1	8.3	27	20	21	—	11

1 dB COMP.: +5 dBm typ.
Conversion Loss specification at 30 MHz IF

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
1700.10	1730.11	6.59	33.55	17.79	2.27	3.57
1920.56	1950.57	5.91	43.58	20.00	2.42	2.46
2141.01	2171.02	5.69	31.78	18.73	2.27	2.18
2361.47	2391.48	5.50	31.56	18.41	2.13	1.93
2581.93	2611.94	5.38	33.00	17.67	1.65	1.86
2802.38	2832.39	5.57	36.30	18.26	1.78	2.10
3022.84	3052.85	6.06	35.33	18.50	2.50	1.97
3243.30	3273.31	6.34	37.11	17.87	2.07	2.40
3463.75	3493.76	6.72	37.99	15.73	2.67	2.37
3684.21	3714.22	7.24	36.04	13.60	2.93	2.96
3904.66	3934.67	7.14	34.06	14.83	2.88	3.40
4125.12	4155.13	7.15	33.41	15.53	2.88	2.75
4400.10	4430.11	6.52	34.87	18.12	2.65	3.20
4676.26	4706.27	6.17	33.98	19.74	2.47	3.29
4896.72	4926.73	6.48	33.26	22.54	3.32	1.93
5117.17	5147.18	5.57	27.67	25.33	1.95	1.23
5337.63	5367.64	5.89	24.83	25.13	2.48	1.40
5558.09	5588.10	5.56	23.69	24.63	2.20	1.74
5778.54	5808.55	5.48	22.62	15.27	1.84	2.73
5999.00	5968.99	6.49	23.51	11.54	1.19	5.84

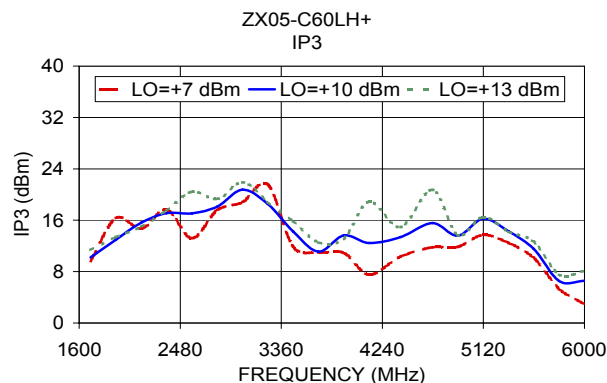
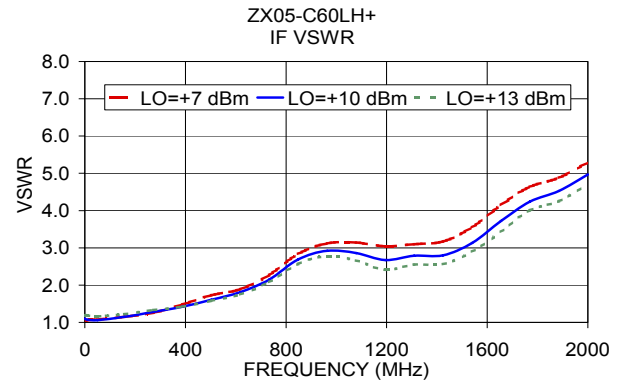
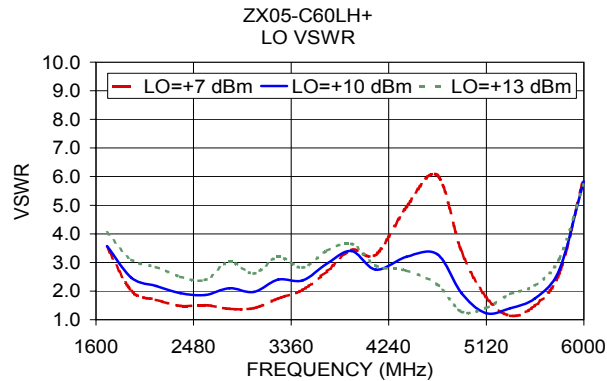
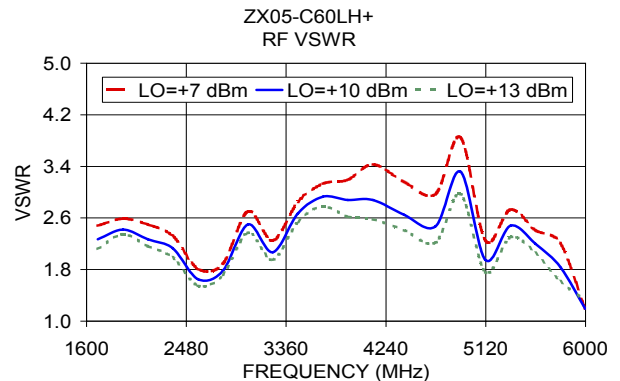
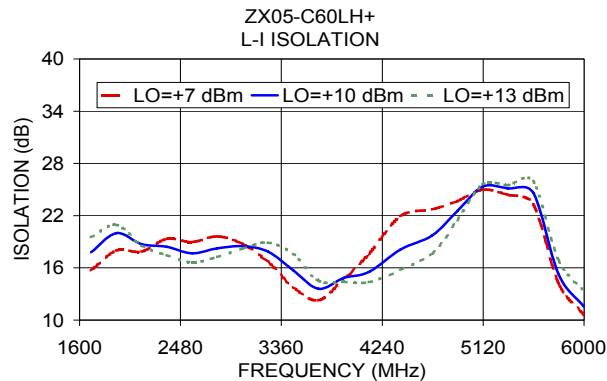
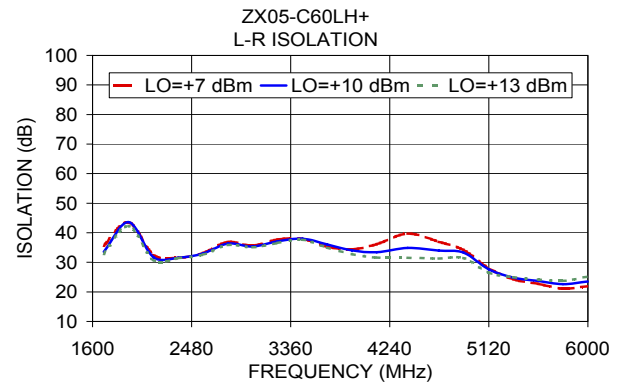
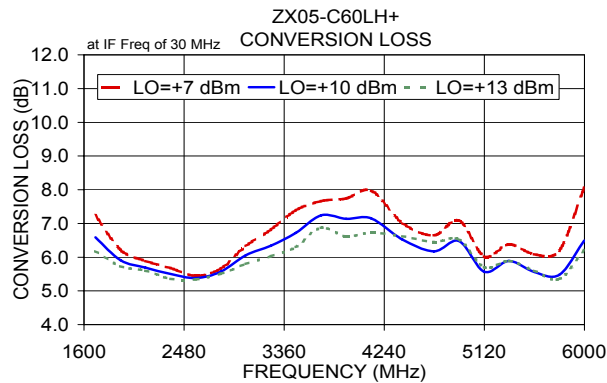
Electrical Schematic



Notes

- A. 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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