

Frequency Mixer

ZX05-C60+

Level 7 (LO Power +7 dBm) 1600 to 6000 MHz

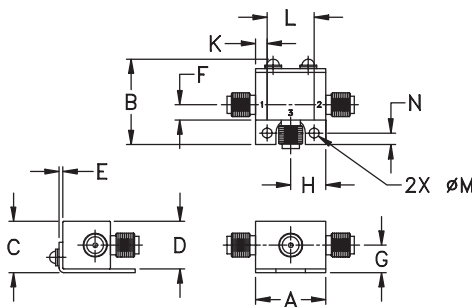
Maximum Ratings

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

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

- 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-C60-S+	\$37.95 ea.	(1-24)

+RoHS Compliant

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

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						
f ₁ -f ₂			$\bar{X}$ σ Max.	Typ.	Min.	Typ.	Min.	Typ.
1600-6000 DC-2000			6.3 0.2 8.3	32	20	17	—	9
1600-4400 DC-2000			6.2 0.3 8.5	23	17	18	—	8

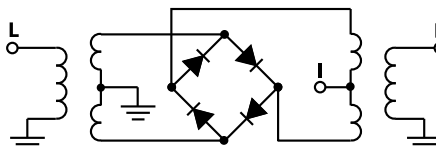
1 dB COMP.: +1 dBm typ.

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 +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
1600.10	1630.11	6.47	32.80	18.08	2.24	4.87
1825.69	1855.70	5.69	40.54	20.58	2.44	2.90
2051.27	2081.28	5.51	34.62	20.26	2.50	2.41
2276.85	2306.86	5.25	31.37	19.11	2.20	2.03
2502.44	2532.45	5.28	31.45	17.13	1.94	1.84
2728.02	2758.03	5.49	33.47	17.11	1.91	2.05
2953.61	2983.62	6.00	33.21	17.20	2.93	2.31
3179.19	3209.20	6.36	33.41	16.92	2.73	2.49
3404.78	3434.79	6.76	35.02	16.07	2.69	2.72
3630.36	3660.37	6.83	34.77	14.78	2.89	3.16
3855.95	3885.96	6.87	34.23	14.48	2.74	3.95
4081.53	4111.54	7.12	33.97	15.29	2.74	3.79
4307.12	4337.13	6.75	35.18	17.32	2.85	4.45
4532.70	4562.71	6.18	33.14	18.24	2.71	4.84
4871.08	4901.09	6.24	30.72	20.71	2.92	2.16
5096.66	5126.67	5.53	25.15	23.32	1.73	1.14
5322.25	5352.26	5.72	22.88	25.07	2.00	1.54
5547.83	5577.84	5.40	22.00	22.46	1.69	2.03
5773.42	5803.43	5.85	21.83	14.93	1.43	3.10
5999.00	5968.99	6.36	21.97	13.20	1.90	6.57

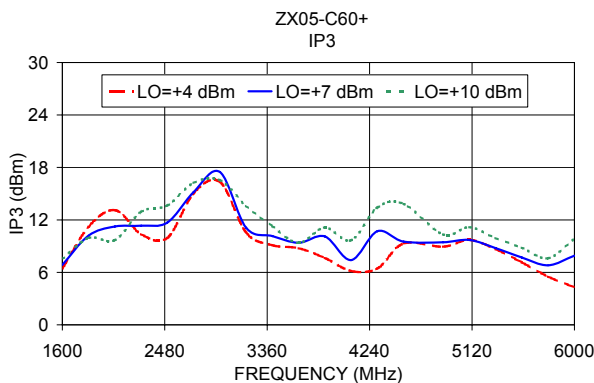
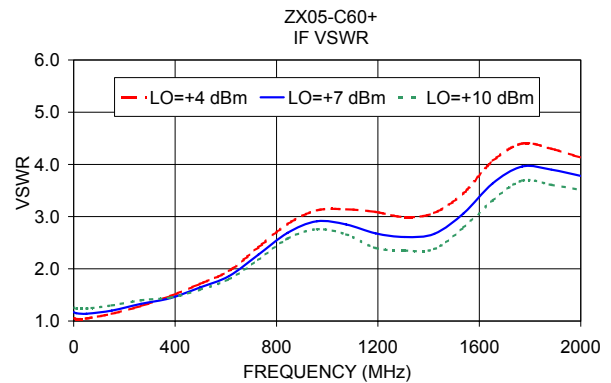
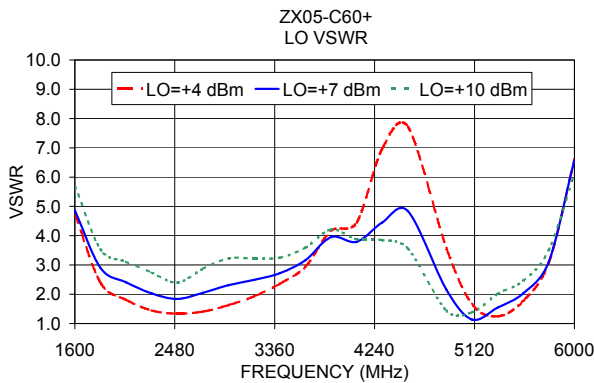
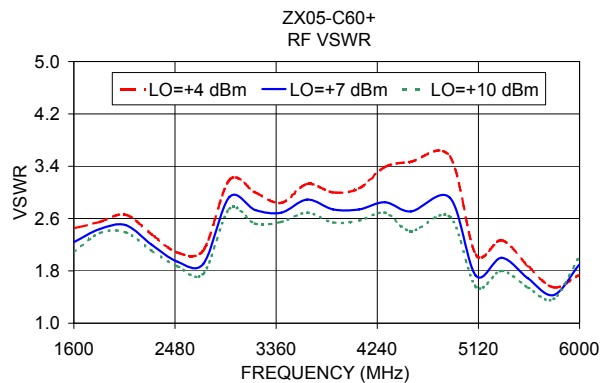
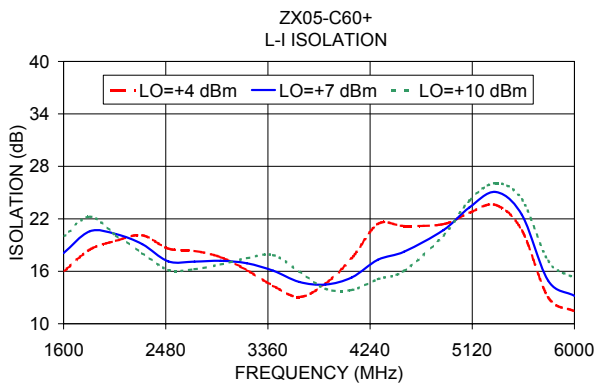
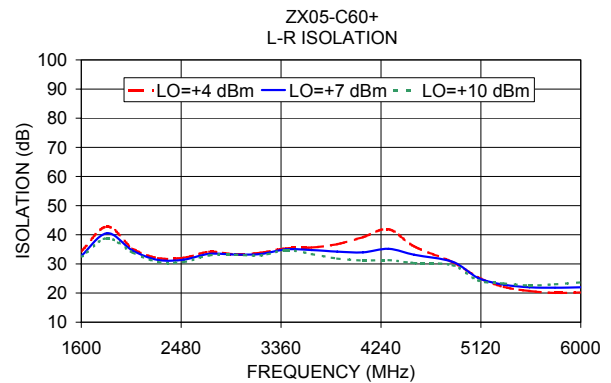
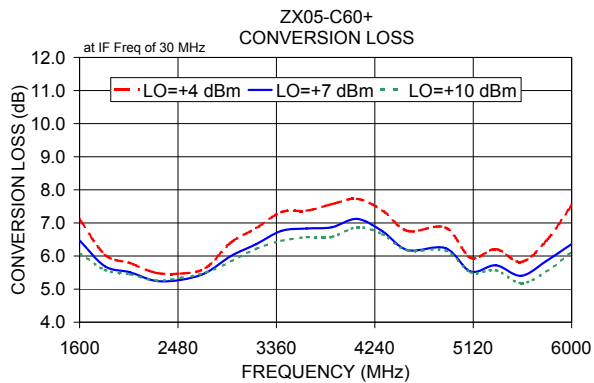
Electrical Schematic



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.
 B. 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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