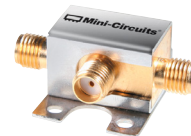


Coaxial Frequency Mixer

Level 7 (LO Power +7 dBm) 5 to 1000 MHz

ZX05-2+



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 6,133,525 & 6,790,049

Applications

- cellular
- PCS
- instrumentation
- satellite communication

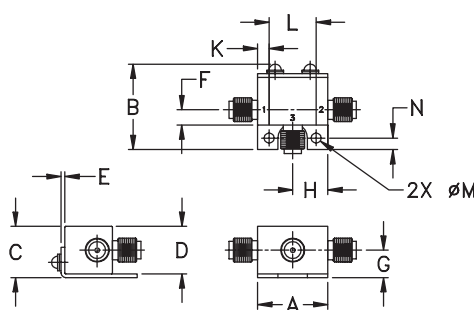
CASE STYLE: FL905

Connectors	Model
SMA	ZX05-2-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 (T_{AMB}=25°C)

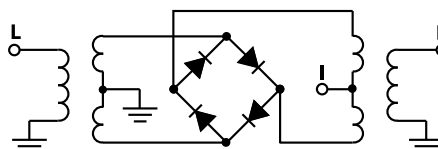
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)						IP3 at center band (dBm)
LO/RF f_L - f_U	IF	Mid-Band m		Total Range Max.		L		M		U		L		M		U		
		$\overline{X}$	σ	Max.		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	
5-1000	DC-1000	6.67	0.26	8.0	9.5	65	50	47	25	35	22	62	35	45	25	32	20	20

1 dB COMP.: +1 dBm typ.

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
5.10	35.10	7.35	79.73	72.80	1.70	2.96
35.10	65.10	6.68	65.41	57.58	1.34	2.85
75.10	45.10	6.67	58.51	51.10	1.33	2.81
100.10	70.10	6.68	55.55	48.57	1.33	2.77
145.43	115.43	6.59	52.55	46.15	1.36	2.85
196.10	166.10	6.61	49.74	43.87	1.37	2.83
246.77	216.77	6.58	47.83	42.51	1.40	2.89
297.43	267.43	6.57	45.98	40.86	1.41	2.87
348.10	318.10	6.55	44.72	39.74	1.43	2.90
398.77	368.77	6.49	43.55	38.33	1.45	2.97
449.43	419.43	6.47	42.18	37.67	1.48	2.86
500.10	470.10	6.57	41.33	35.99	1.47	3.08
554.39	524.39	6.50	40.85	34.37	1.50	2.94
622.96	592.96	6.47	40.13	33.54	1.54	2.96
691.53	661.53	6.54	38.92	32.56	1.58	3.07
760.10	730.10	6.57	37.34	30.86	1.57	3.01
828.67	798.67	6.66	36.40	29.95	1.53	2.86
897.24	867.24	6.74	36.20	29.79	1.48	2.80
965.81	935.81	6.84	35.76	29.08	1.46	2.93
1000.10	970.10	6.92	35.50	28.61	1.47	2.79

Electrical Schematic



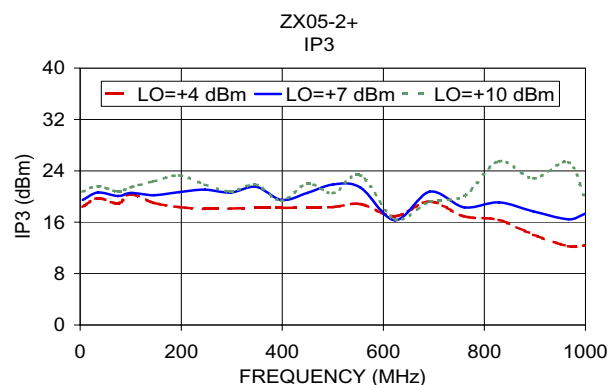
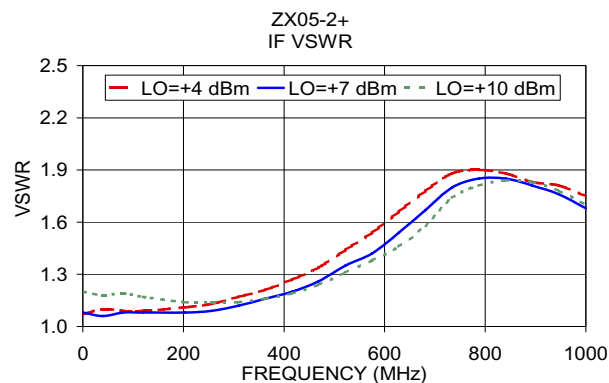
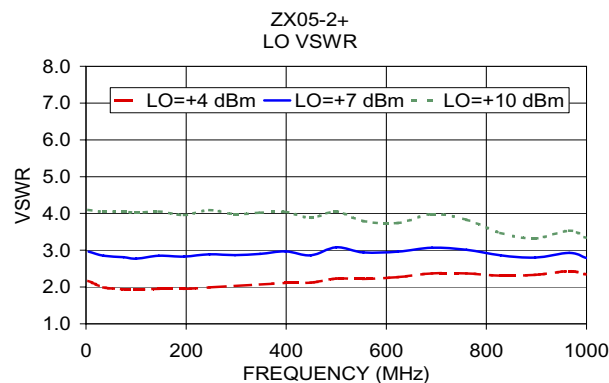
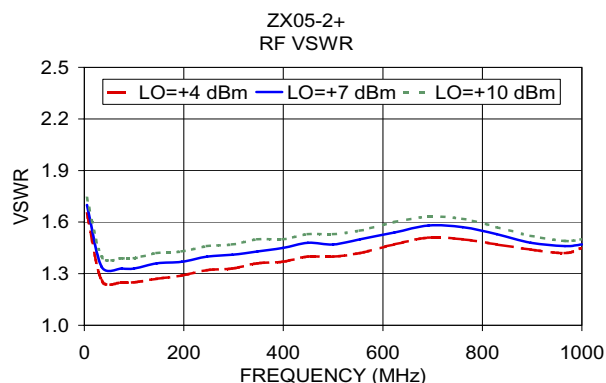
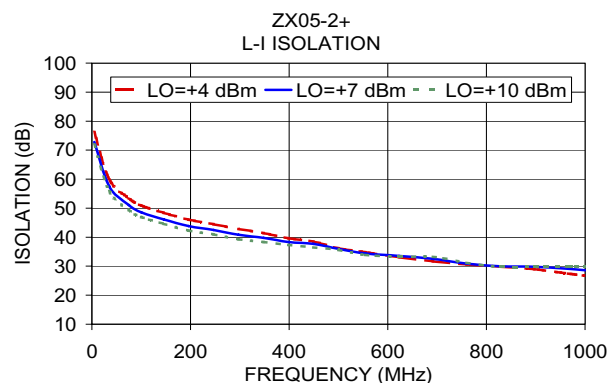
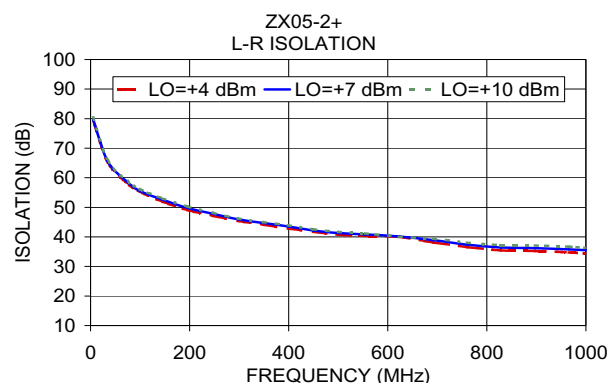
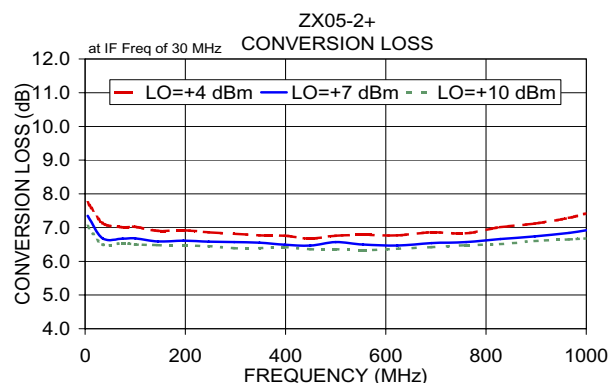
Notes

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