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Coaxial

Frequency Mixer

ZX05-C24-S+

Level 7 (LO Power +7 dBm) 300 to 2400 MHz



Generic photo used for illustration purposes only

CASE STYLE: FL905

Connectors	Model
SMA	ZX05-C24-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	50mW
IF Current	40mA

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

LO	1
RF	2
IF	3

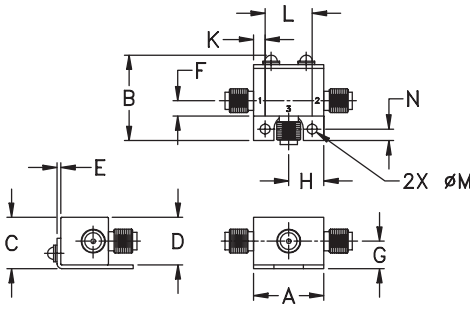
Features

- 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

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)

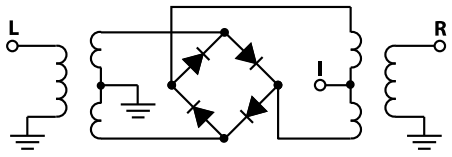
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)
		Mid-Band m							
LO/RF	IF								
f_L-f_U		$\overline{X}$	σ	Max.	Typ.	Min.	Typ.	Min.	Typ.
300-2400	DC-700	6.1	0.1	8.9	40	25	25	15	10

1 dB COMP.: +1 dBm typ.
m= mid band [$2f_L$ to $f_U/2$]

Typical Performance Data

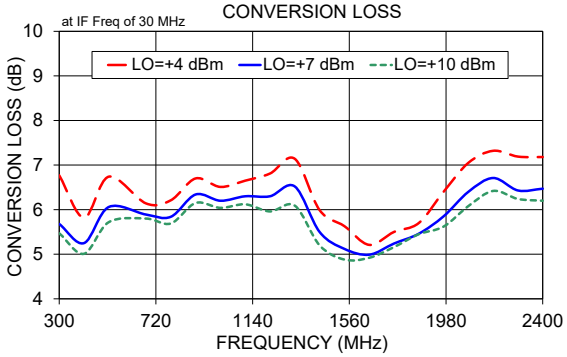
Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)
RF	LO	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
300.10	330.11	5.68	51.87	22.71	2.06	11.84
407.79	437.80	5.25	41.41	23.57	1.67	3.88
515.49	545.50	6.06	40.47	26.07	3.26	2.16
677.02	707.03	5.89	42.94	25.56	3.01	2.01
784.72	814.73	5.84	40.24	25.84	3.01	2.70
892.41	922.42	6.34	40.63	27.58	3.33	3.30
1000.10	1030.11	6.20	40.86	24.68	2.91	3.30
1107.79	1137.80	6.30	41.49	25.50	2.85	3.64
1215.49	1245.50	6.30	42.28	28.67	2.80	4.25
1323.18	1353.19	6.52	42.85	31.25	2.63	4.29
1430.87	1460.88	5.50	42.88	31.79	1.90	3.30
1538.56	1568.57	5.12	39.85	29.89	1.21	2.08
1646.25	1676.26	4.99	35.18	30.66	1.28	1.95
1753.95	1783.96	5.24	35.73	27.45	1.34	1.73
1861.64	1891.65	5.46	32.74	25.30	1.75	1.89
1969.33	1999.34	5.85	32.38	24.75	2.29	2.21
2077.02	2107.03	6.40	32.49	29.12	2.96	2.39
2184.72	2214.73	6.71	31.71	25.37	3.22	2.63
2292.41	2322.42	6.43	33.89	24.61	2.63	2.96
2400.10	2370.09	6.47	34.51	25.21	2.41	3.22

Electrical Schematic

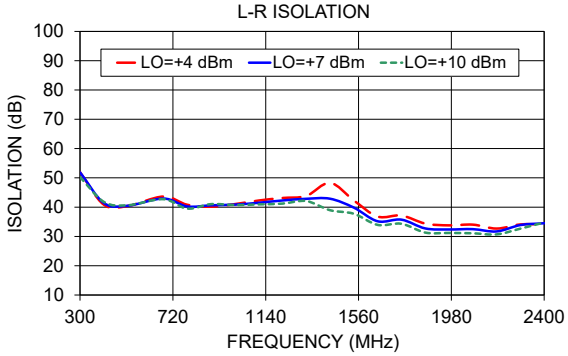


Notes
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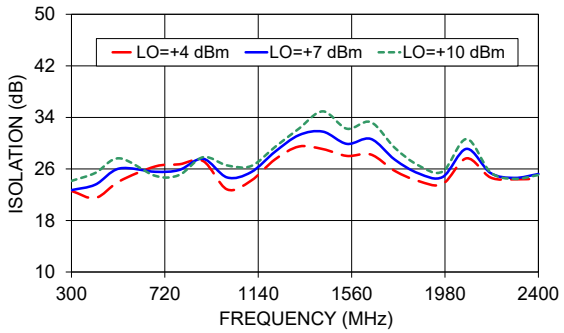
ZX05-C24-S+
CONVERSION LOSS
at IF Freq of 30 MHz



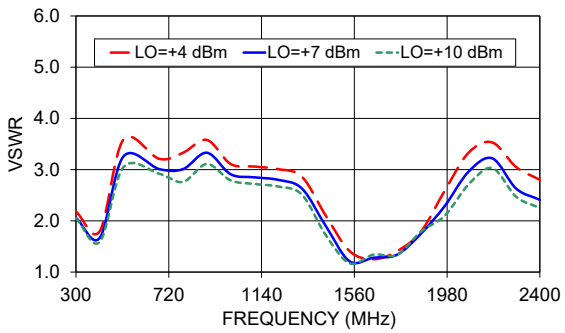
ZX05-C24-S+
L-R ISOLATION



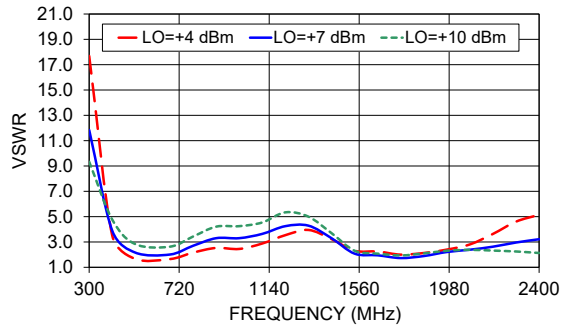
ZX05-C24-S+
L-I ISOLATION



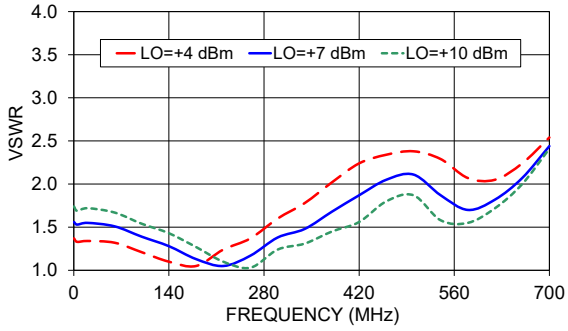
ZX05-C24-S+
RF VSWR



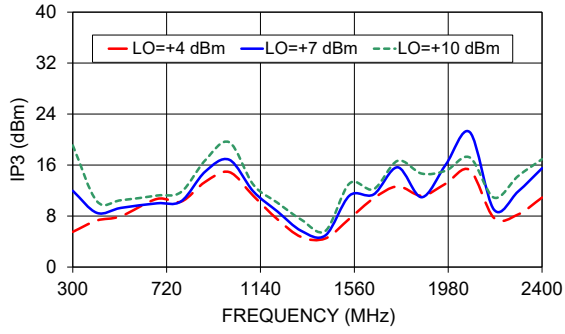
ZX05-C24-S+
LO VSWR



ZX05-C24-S+
IF VSWR



ZX05-C24-S+
IP3



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