

Frequency Mixer

Level 17 (LO Power +17 dBm) 5 to 1000 MHz

ZFM-2H+

SMA version shown
CASE STYLE: K18

Connectors	Model
BNC	ZFM-2H+
SMA	ZFM-2H-S+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Maximum Ratings

Operating Temperature	-55°C to 100°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

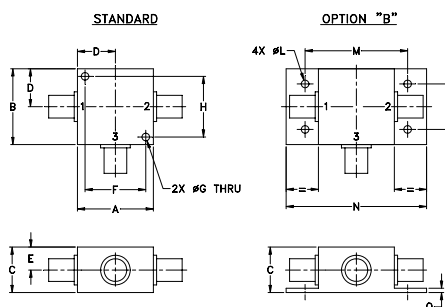
Features

- low conversion loss, 6.12 dB typ.
- good L-R isolation, 40 dB typ, L-I, 35 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- cellular
- instrumentation

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF	IF	Mid-Band		Total		L		M		U		L		M		U	
f_L - f_U		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
5-1000	DC-1000	6.12	0.12	7.0	10.0	50	40	40	30	30	20	45	40	35	25	25	17

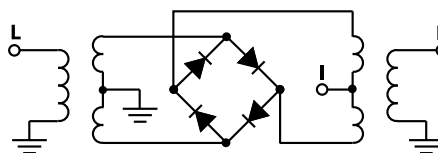
1 dB COMP.: +14 dBm typ.

L = low range [f_L to $10 f_L$]m = mid band [$2f_L$ to $f_U/2$]M = mid range [$10 f_L$ to $f_U/2$]U = upper range [$f_U/2$ to f_U]

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
5.00	35.00	5.75	73.03	64.57	1.24	1.51
35.15	65.15	5.75	53.95	50.91	1.10	1.53
65.30	95.30	5.78	47.75	44.94	1.10	1.52
125.61	95.61	5.83	45.94	42.85	1.09	1.44
185.91	155.91	5.88	41.73	38.74	1.09	1.43
216.06	186.06	5.87	40.07	37.26	1.10	1.39
276.37	246.37	5.70	37.49	34.59	1.11	1.38
336.67	306.67	5.62	35.70	32.97	1.11	1.40
396.98	366.98	5.78	35.50	32.29	1.12	1.37
457.28	427.28	6.15	33.92	30.55	1.13	1.36
517.58	487.58	5.88	34.70	29.07	1.15	1.37
547.74	517.74	5.91	35.38	29.45	1.15	1.39
608.04	578.04	6.36	34.75	28.29	1.16	1.38
668.34	638.34	6.50	34.53	27.06	1.17	1.38
728.65	698.65	6.30	33.69	25.41	1.20	1.36
788.95	758.95	6.43	32.39	25.21	1.22	1.45
849.26	819.26	7.56	32.23	24.28	1.26	1.49
909.56	879.56	8.59	32.46	23.91	1.34	1.52
969.86	939.86	8.55	32.66	24.30	1.46	1.54
1000.00	970.00	8.57	32.20	24.05	1.62	1.53

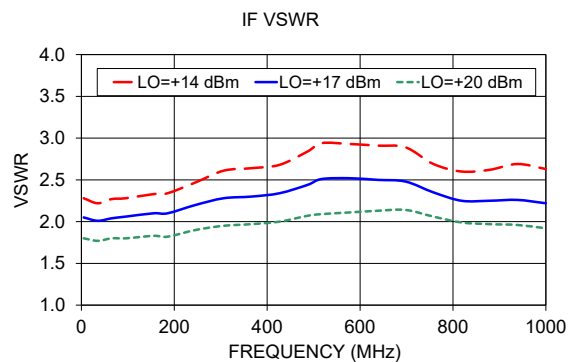
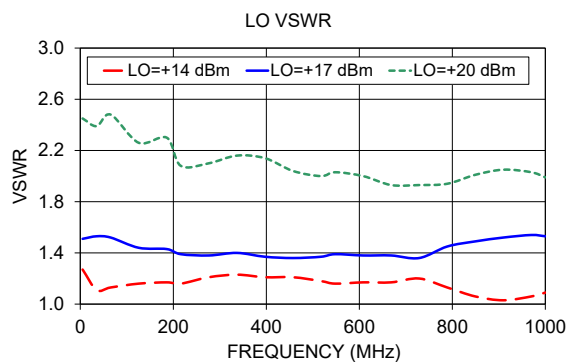
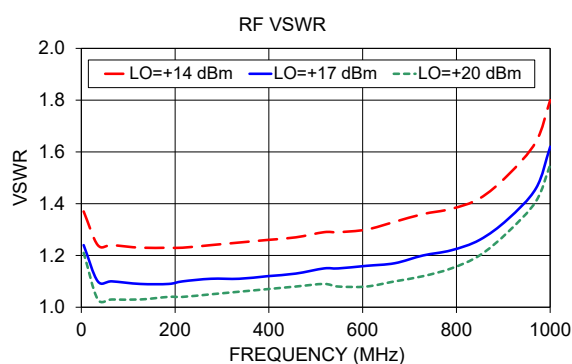
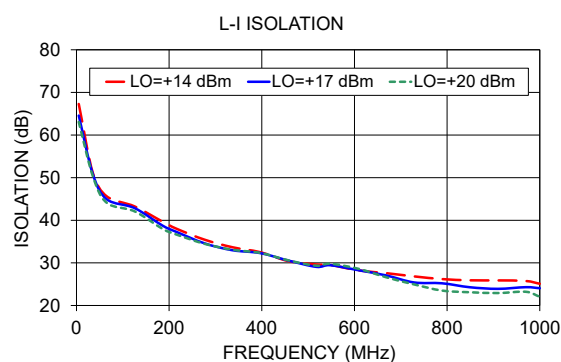
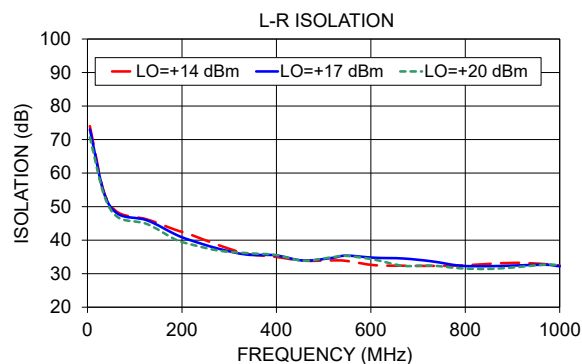
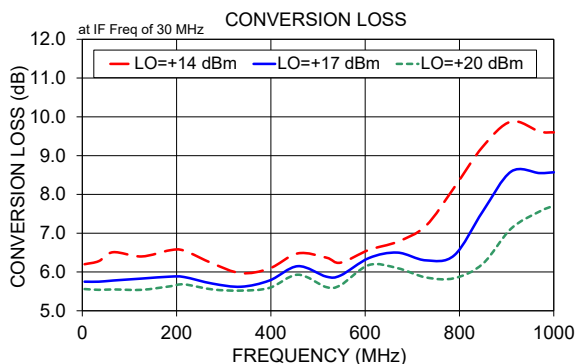
Electrical Schematic



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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