

X3 Frequency Multiplier

ZX90-3-692+

50Ω Output 5100 to 6900 MHz

Maximum Ratings

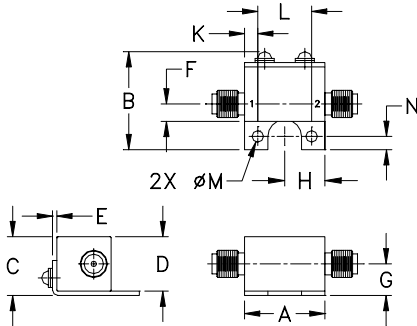
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	17 dBm

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

Coaxial Connections

INPUT	1
OUTPUT	2

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	19.0

Features

- broadband
- low conversion loss, 14.7 dB typ.
- high rejection F2, 40 dBc typ., F4, 40 dBc typ.
- protected by US Patent 6,790,049

Applications

- synthesizers
- local oscillators
- satellite up and down converters



CASE STYLE: JA1242

Connectors	Model	Price	Qty.
SMA	ZX90-3-692-S+	\$41.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

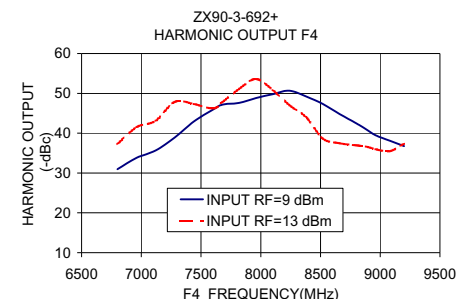
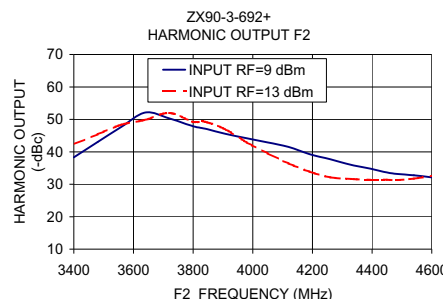
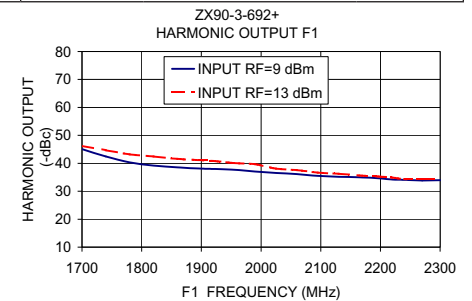
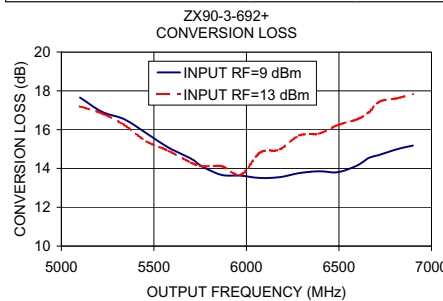
Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)	*HARMONIC OUTPUT (dBc)						
	F1 Input	F3 Output	Min.	Max.		F1		F2		F4		
3	1700-2300	5100-6900	9	13	14.7	20	40	29	40	25	40	25

* Harmonics of input frequency below the power level of F3

Typical Performance Data

Input Frequency (MHz)	INPUT RF= 9 dBm				INPUT RF= 13 dBm			
	Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)			Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)		
		F1	F2	F4		F1	F2	F4
1700.00	17.66	45.09	38.29	30.95	17.20	46.26	42.35	37.26
1740.00	16.91	42.47	43.03	33.81	16.83	44.67	45.43	41.48
1780.00	16.54	40.32	47.74	35.67	16.25	43.20	48.36	43.12
1820.00	15.81	39.19	52.11	38.92	15.40	42.43	49.87	47.84
1860.00	15.07	38.57	50.31	42.93	14.90	41.61	51.99	47.31
1900.00	14.51	38.08	47.88	45.91	14.30	41.07	49.21	46.19
1920.00	14.11	37.99	47.14	47.16	14.11	40.82	49.27	47.80
1955.00	13.67	37.69	45.51	47.61	14.12	40.07	46.82	51.10
1990.00	13.63	37.07	44.16	48.80	13.68	39.71	42.91	53.60
2025.00	13.51	36.57	42.87	49.78	14.82	38.12	39.54	50.88
2060.00	13.55	36.12	41.51	50.68	14.98	37.56	36.44	47.05
2095.00	13.76	35.51	39.27	49.20	15.70	36.67	33.89	44.01
2130.00	13.85	35.14	37.68	47.32	15.79	36.23	32.14	38.63
2165.00	13.81	34.97	35.97	44.81	16.24	35.63	31.61	37.48
2200.00	14.16	34.62	34.71	42.48	16.54	35.24	31.37	36.94
2220.00	14.54	34.19	33.82	41.01	16.89	34.89	31.43	36.68
2240.00	14.70	34.06	33.21	39.49	17.45	34.34	31.26	35.98
2270.00	14.98	33.87	32.75	38.13	17.61	34.33	31.71	35.46
2300.00	15.18	33.94	32.13	36.76	17.84	34.29	32.61	37.36



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