Frequency Multiplier

ZX90-3-692+

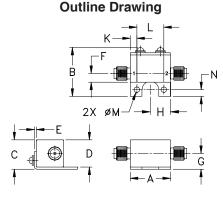
Output 5100 to 6900 MHz 50Ω

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 Dimensions (inch)

G	F	E	D	С	В	Α
.29	.16	.04	.50	.54	.90	.74
7.37	4.06	1.02	12.70	13.72	22.86	18.80
wt	N	M	L	K	J	Н
grams	.122	.106	.496	.122		.37
19.0	3.10	2.69	12.60	3.10		9.40

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

Connectors Model Qtv. SMA 7X90-3-692-S+ \$41.95 (1-9)

+RoHS Compliant

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

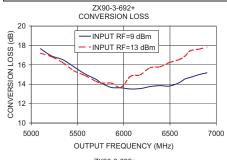
Electrical Specifications

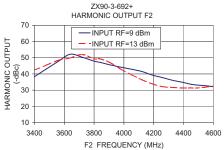
MULTIPLICATION FACTOR		JENCY Hz)	POV	INPUT POWER		CONVERSION LOSS		*HARMONIC OUTPUT (dBc)				
	F1	F3	(dBm)		(dB)		F	1	F	2	F	4
	Input	Output	Min.	Max.	Тур.	Max.	Тур.	Min.	Тур.	Min.	Тур.	Min.
3	1700-2300	5100-6900	9	13	14.7	20	40	29	40	25	40	25

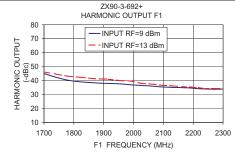
^{*} Harmonics of input frequency below the power level of F3

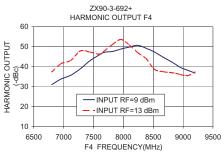
Typical Performance Data

	INPU	INPUT RF= 13 dBm						
Input Frequency (MHz)	Conversion Loss (dB)	Ha	Below F3 Loss Below		rmonic Outp Below F3 (-dBc)	/ F3 ·		
		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









- 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.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp