

X3 Frequency Multiplier

ZX90-3-812+

50Ω Output 6000 to 8100 MHz

Maximum Ratings

Operating Temperature	-40°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

Features

- broadband
- high rejection F1, 30 dBc typ.; F2, 48 dBc typ., F4, 55 dBc typ.
- rugged construction
- protected by US Patent 6,790,049

Applications

- synthesizers
- local oscillators
- satellite up and down converters



CASE STYLE: JA1242

Connectors	Model	Price	Qty.
SMA	ZX90-3-812-S+	\$51.95	(1-9)

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

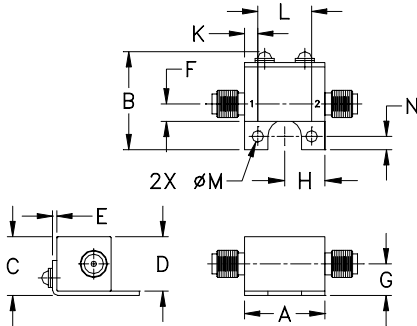
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1 Input	F3 Output	Min.	Max.	Typ.	Max.	F1		F2		F4	
3	2000-2700	6000-8100	0	5	15	22	30	21	48	30	48	27

* Harmonics of input frequency below the power level of F3

Outline Drawing



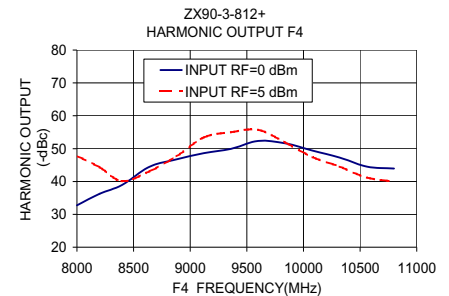
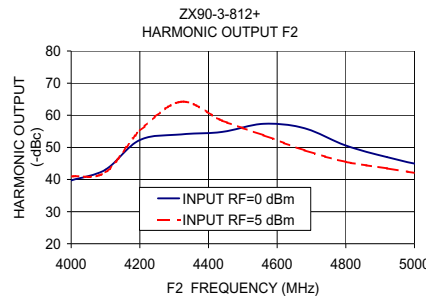
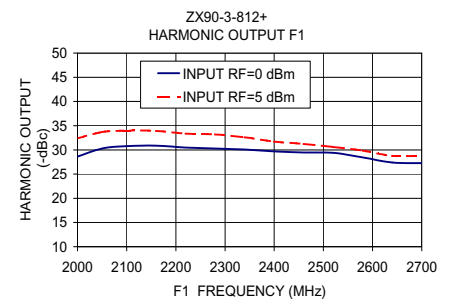
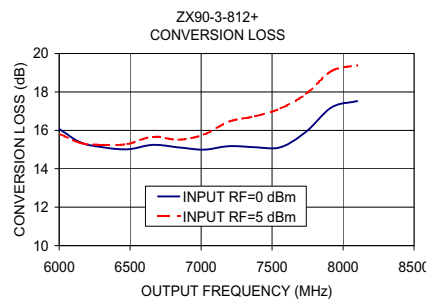
Outline Dimensions (inch/mm)

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

Typical Performance Data

Input Frequency (MHz)	INPUT RF= 0 dBm				INPUT RF= 5 dBm			
	Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)			Conversion Loss (dB)	Harmonic Output Below F3 (-dBc)		
	F3	F1	F2	F4	F3	F1	F2	F4
2000.00	16.07	28.61	39.71	32.76	15.82	32.38	40.92	47.75
2050.00	15.37	30.27	43.04	36.29	15.35	33.69	42.23	44.35
2100.00	15.13	30.77	52.29	38.99	15.25	33.98	55.15	40.09
2160.00	15.01	30.86	54.04	44.45	15.29	33.91	64.18	43.05
2220.00	15.25	30.46	54.81	46.76	15.67	33.37	58.33	47.65
2280.00	15.11	30.28	57.32	48.63	15.51	33.19	53.77	53.41
2340.00	15.00	30.09	55.94	49.94	15.78	32.61	49.10	55.01
2400.00	15.18	29.69	50.59	52.35	16.46	31.72	45.50	55.73
2460.00	15.12	29.47	46.97	51.62	16.73	31.24	43.44	51.87
2520.00	15.12	29.39	44.21	49.41	17.14	30.59	41.38	47.42
2580.00	15.93	28.46	43.39	47.25	17.90	29.86	39.40	44.54
2640.00	17.20	27.38	42.79	44.54	19.09	28.76	37.26	41.18
2700.00	17.52	27.28	42.93	43.92	19.38	28.74	36.75	39.96



Mini-Circuits
 ISO 9001 ISO 14001 AS 9100 CERTIFIED
 IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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Provides ACTUAL Data Instantly at minicircuits.com

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