

X2 Frequency Multiplier

50Ω Output 20 to 2000 MHz

GK-5



CASE STYLE: L20

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	200mW

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

Features

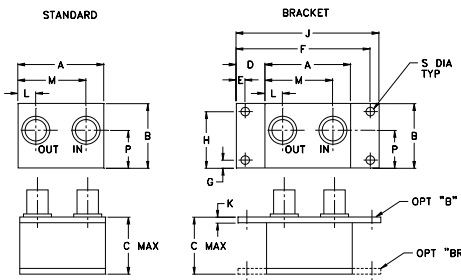
- wideband, 20 to 2000 MHz
- low conversion loss, 13 dB typ.
- rugged shielded case

Applications

- synthesizers
- local oscillators

Connectors	Model	Price	Qty.
BNC	GK-5	\$67.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H
2.25	1.38	1.24	.50	.150	3.100	.138	1.238
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45

J	K	L	M	N	P	S	wt
3.25	.10	.40	1.86	--	.64	.150	grams
82.55	2.54	10.16	47.24	--	16.26	3.81	74.0

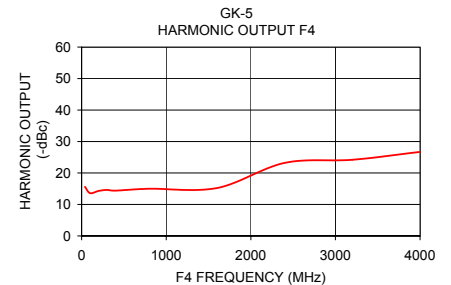
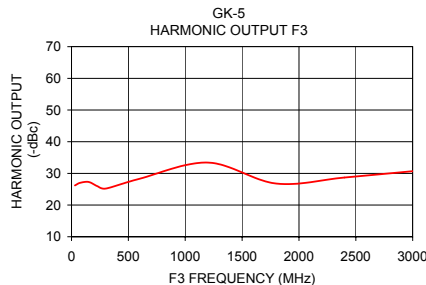
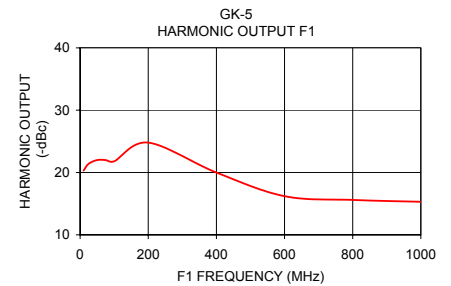
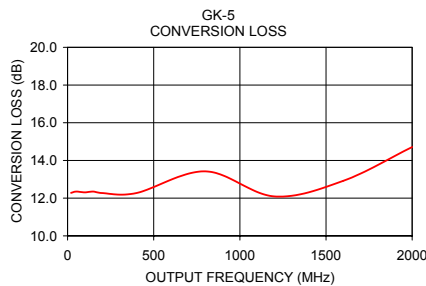
Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1 Input	F2 Output	Min.	Max.	Typ.	Max.	F1		F3		F4	
2	10-600	20-1200	10**	20	13.0	15.0	20	10	26	20	15	10
	600-1000	1200-2000	10**	20	14.0	17.0	20	10	25	20	25	15

* Harmonics of input frequency below the power level of F2
 ** Minimum input power +13 dBm above 700 MHz.

Typical Performance Data

Input Frequency (MHz)	Conversion Loss (dB) F2	Harmonic Output (-dBc)		
		F1	F3	F4
10.00	12.28	20.30	26.20	15.60
25.00	12.35	21.40	27.00	13.60
50.00	12.31	22.00	27.30	14.30
75.00	12.35	22.00	26.00	14.60
100.00	12.27	21.80	25.20	14.40
200.00	12.27	24.80	28.30	15.00
400.00	13.42	20.00	33.40	15.20
600.00	12.09	16.20	26.80	23.20
800.00	12.92	15.60	28.70	24.20
1000.00	14.71	15.30	30.70	26.70



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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