

X2 Frequency Multiplier

SK-2+

50Ω Output 2 to 1000 MHz



Maximum Ratings

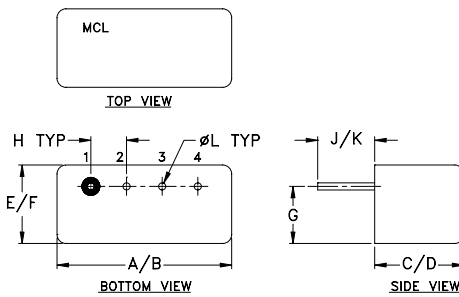
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	200mW
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

INPUT	1,2 [^]
OUTPUT	4
GROUND EXT.	3
CASE GROUND	3

[^] pins must be connected together externally

Outline Drawing



Outline Dimensions (Inch/mm)

A	B	C	D	E	F
.480	.500	.240	.255	.210	.230
12.19	12.70	6.10	6.48	5.33	5.84
G	H	J	K	L	wt
.16	.100	.14	.20	.020	grams
4.06	2.54	3.56	5.08	0.51	1.9

Features

- wideband, 2 to 1000 MHz
- low conversion loss, 13.5 dB typ.

Applications

- synthesizers
- local oscillators

CASE STYLE: B02

PRICE: \$31.20 ea. QTY (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.

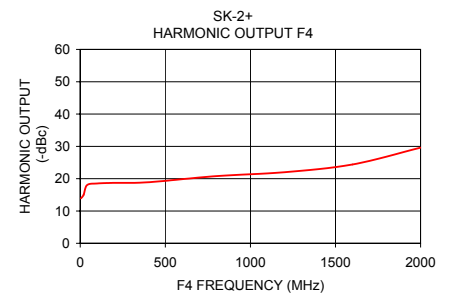
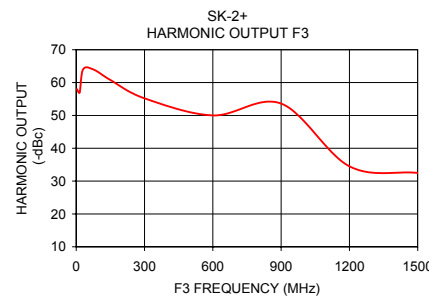
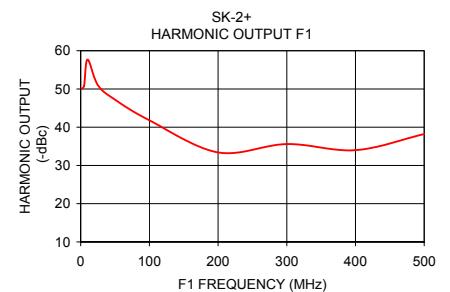
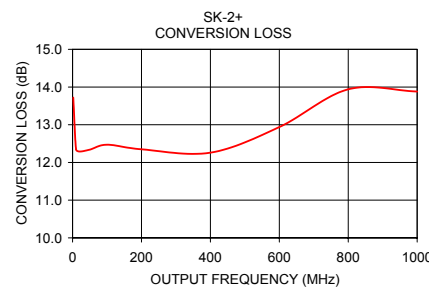
Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1	F2					F1		F3		F4	
	Input	Output	Min.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.
2	1-100	2-200	1	10	13.0	15.0	40	30	50	40	16	12
	100-300	200-600	1	10	13.5	15.5	25	20	40	30	16	12
	300-500	600-1000	1	10	14.0	16.0	20	15	30	25	16	12

* Harmonics of input frequency below the power level of F2

Typical Performance Data

Input Frequency (MHz)	Conversion Loss (dB) F2	Harmonic Output (-dBc)		
		F1	F3	F4
1.00	13.72	50.00	58.00	13.90
5.00	12.35	50.80	57.00	15.00
10.00	12.29	57.70	64.00	18.00
25.00	12.34	51.00	64.00	18.50
50.00	12.47	47.20	60.80	18.70
100.00	12.35	41.80	55.20	18.90
200.00	12.26	33.40	50.00	20.80
300.00	12.94	35.60	53.60	22.00
400.00	13.94	34.00	34.50	24.40
500.00	13.88	38.20	32.50	29.60



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

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