

# Doubler Frequency Multiplier

## SK-2+ SK-2

50Ω Output 2 to 1000 MHz



### Maximum Ratings

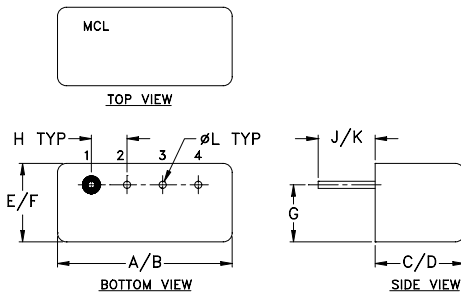
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	200mW

### Pin Connections

INPUT	1,2 <sup>^</sup>
OUTPUT	4
GROUND EXT.	3
CASE GROUND	3

<sup>^</sup> 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: \$28.70 ea. QTY (1-9)

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

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

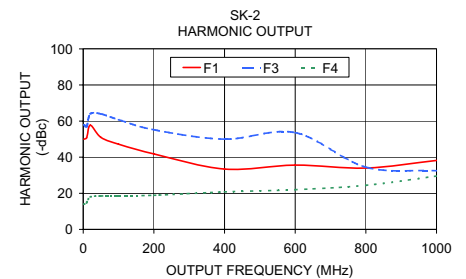
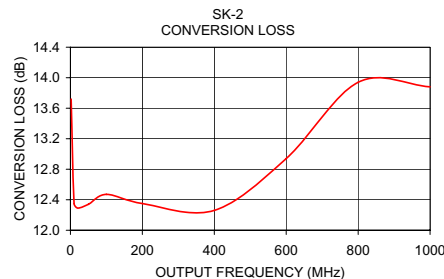
### Frequency Multiplier Electrical Specifications

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	Input	Output	Min.	Max.	Typ.	Max.	F1		F3		F4	
							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

\* Harmonic output below power level of F2

### Typical Performance Data

Output Frequency (MHz)	Conversion Loss (dB)	Harmonic Output (-dBc)		
		F1	F3	F4
2.00	13.72	50.00	58.00	13.90
10.00	12.35	50.80	57.00	15.00
20.00	12.29	57.70	64.00	18.00
50.00	12.34	51.00	64.00	18.50
100.00	12.47	47.20	60.80	18.70
200.00	12.35	41.80	55.20	18.90
400.00	12.26	33.40	50.00	20.80
600.00	12.94	35.60	53.60	22.00
800.00	13.94	34.00	34.50	24.40
1000.00	13.88	38.20	32.50	29.60



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RF/IF MICROWAVE COMPONENTS

REV. A  
M98898  
SK-2  
AD/CP  
070305