

# X2 Frequency Multiplier

50Ω Output 0.1 to 300 MHz

**RK-3+**  
**RK-3**



## Maximum Ratings

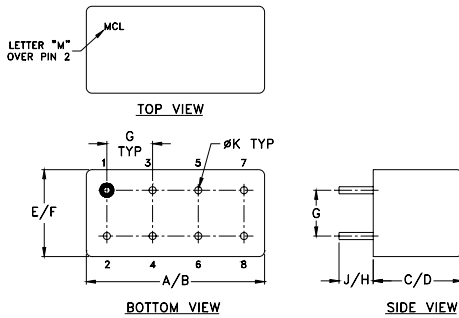
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	200mW

## Pin Connections

INPUT	1,3,4 <sup>^</sup>
OUTPUT	8
GROUND	2,5,6,7
CASE GROUND	2

<sup>^</sup> pins must be connected together externally

## Outline Drawing



## Outline Dimensions (Inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

## Features

- low conversion loss, 11 dB typ.
- hermetic case

## Applications

- synthesizers
- local oscillators
- military, hi-rel applications

CASE STYLE: A01

PRICE: \$18.20 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.

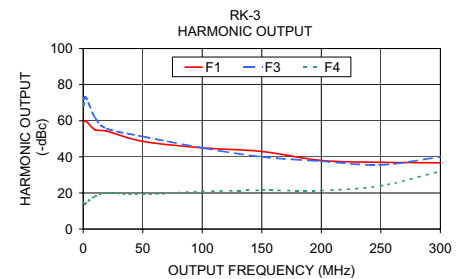
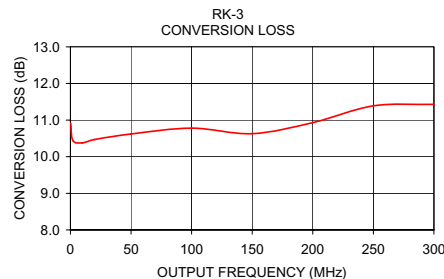
## Electrical Specifications

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	0.05-50	0.1-100	0	13	11.0	17.0	40	28	45	30	16	8
	50-150	100-300	0	13	11.5	15.0	35	20	40	20	16	12

\* Harmonics of input frequency below the power level of F2

## Typical Performance Data

Output Frequency (MHz)	Conversion Loss (dB)	Harmonic Output (-dBc)		
		F1	F3	F4
0.20	10.92	59.00	68.00	14.40
2.00	10.44	60.00	73.00	14.20
10.00	10.38	55.00	61.60	18.20
20.00	10.47	54.20	55.60	20.00
50.00	10.62	48.60	51.30	19.30
100.00	10.78	45.00	45.00	20.80
150.00	10.63	43.00	40.00	21.50
200.00	10.93	38.00	37.60	21.40
250.00	11.39	37.00	35.60	24.00
300.00	11.43	36.70	40.00	32.00



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RF/IF MICROWAVE COMPONENTS

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