

# X2 Frequency Multiplier

50Ω Output 20 to 2000 MHz

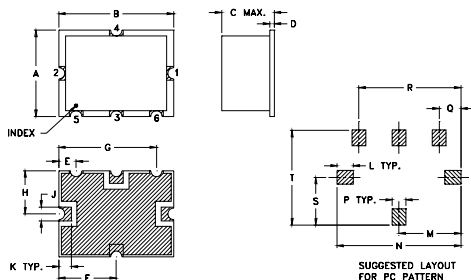
## Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

## Pin Connections

INPUT	2
OUTPUT	1
GROUND	4
CASE GROUND	4
NOT USED	3

## Outline Drawing



## Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	
.375	.500	.23	.020	.075	.250	.425	.187	.050	
9.53	12.70	5.84	0.51	1.91	6.35	10.80	4.75	1.27	
K	L	M	N	P	Q	R	S	T	wt.
.050	.070	.270	.540	.060	.095	.445	.208	.415	grams
1.27	1.78	6.86	13.72	1.52	2.41	11.30	5.28	10.54	0.8

## Features

- wideband, 20 to 2000 MHz
- low conversion loss, 10.5 dB typ.

## Applications

- synthesizers
- local oscillators



CASE STYLE: TTT167

PRICE: \$29.95 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.

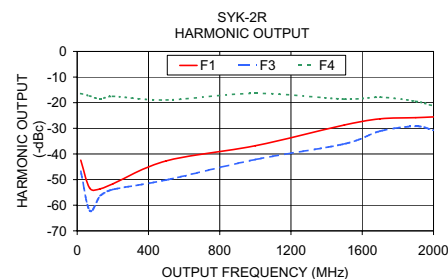
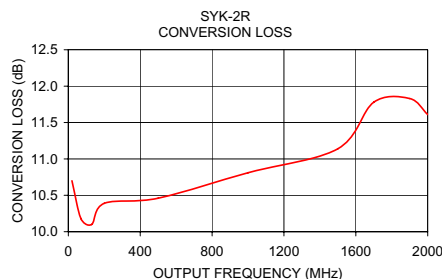
## Electrical Specifications at 25°C

MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
	F1 Input	F2 Output	Min.	Max.	Typ.	Max.	F1 Typ.	F1 Min.	F3 Typ.	F3 Min.	F4 Typ.	F4 Min.
2	10-500	20-1000	12	16	10.5	14.0	35	25	42	25	20	10
	500-1000	1000-2000	12	16	11.5	16.0	32	20	37	20	20	10

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

## Typical Performance Data 25°C

Output Frequency (MHz)	Conversion Loss (dB)	Harmonic Output (-dBc)		
		F1	F3	F4
20.00	10.70	-42.42	-46.82	-16.42
70.00	10.18	-53.30	-62.08	-17.36
130.00	10.10	-53.60	-56.32	-18.56
200.00	10.39	-51.67	-53.85	-17.49
500.00	10.46	-42.71	-50.14	-18.94
1000.00	10.81	-36.79	-42.16	-16.36
1500.00	11.14	-28.68	-36.07	-18.60
1700.00	11.78	-26.29	-31.08	-17.82
1900.00	11.83	-25.85	-29.19	-19.43
2000.00	11.61	-25.54	-30.74	-21.25



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