

Plug-In

# Frequency Multiplier

Output 140 to 3000 MHz

AK-3000



CASE STYLE: A03  
PRICE: \$64.45 ea. QTY (1-9)

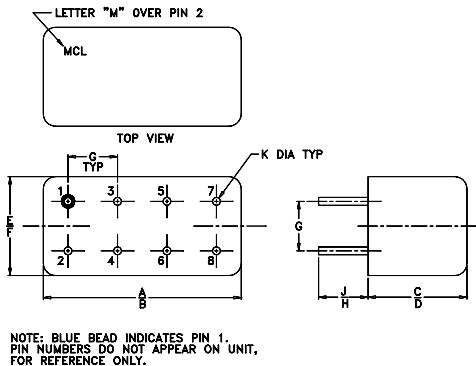
## Maximum Ratings

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

## Pin Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

## Outline Drawing



## Outline Dimensions (inch)

A	B	C	D	E	F
.480	.500	.390	.405	.210	.230
12.19	12.70	9.91	10.29	5.33	5.84

G	H	J	K	wt
.100	.20	.14	.020	grams
2.54	5.08	3.56	0.51	2.3

## Features

- wideband, 140 to 3000 MHz
- hermetic case
- low conversion loss, 11 dB typ

## Applications

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

## Frequency Multiplier Electrical Specifications

MODEL NO.	MULTIPLICATION FACTOR	FREQUENCY (MHz)		INPUT POWER (dBm)		CONVERSION LOSS (dB)		*HARMONIC OUTPUT (dBc)					
		Input	Output	Min.	Max.	Typ.	Max.	F1 Typ. Min.	F3 Typ. Min.	F4 Typ. Min.			
AK-3000	2	70-1000	140-2000	12	15	10.5	14.0	31	20	40	25	14	10
		1000-1500	2000-3000	12	15	11.5	16.0	22	15	30	20	30	14

\*Harmonic output below power level of F2

## Typical Performance Data

Output Frequency (MHz)	Conversion Loss (dB)	Harmonic Output (-dBc)		
		F1	F3	F4
140.00	10.32	49.20	51.20	15.70
200.00	10.54	50.60	54.20	15.60
400.00	10.39	43.70	54.10	16.90
900.00	10.94	34.30	46.80	15.60
1000.00	10.91	34.80	47.80	14.90
1400.00	10.69	29.70	43.40	16.90
1800.00	10.56	28.10	39.50	23.10
2000.00	10.82	25.80	33.90	21.70
2400.00	12.43	25.10	42.90	25.60
3000.00	13.30	21.90	29.70	40.20

