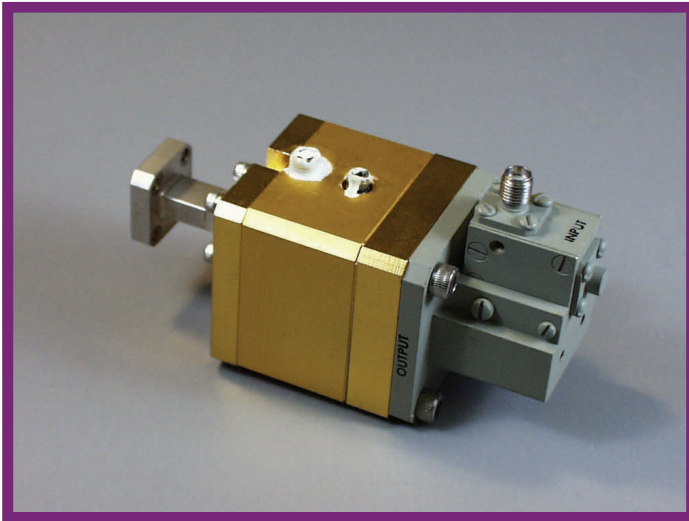


932, 933, 934, 936 Series

High-Power Multipliers



Description

932, 933, 934, 936 Series Multipliers

Mi-Waves' 932 series frequency multipliers offer high power, high efficiency designs that can be used to generate millimeter wave frequencies from lower frequency microwave sources. GaAs varactor diodes mounted in high-Q housings provide for minimal circuit losses and optimal harmonic generation. An SMA female input connector is available up to an input frequency of 40 GHz.

X2, X3, and most X4 multipliers use only a single multiplier stage. In a two-stage X4, X6, or X9 multiplier, an interstage isolator is provided. The 932 series multipliers are designed for input power levels from 30 mW to 1 W. The multipliers are optimized for specific power levels in this range for an input dynamic range of 3 to 4 dB. These units are used for LO sources, frequency extension of synthesizers, and CW transmitters. Options such as isolators and filters can be supplied for many specialized applications. Please consult **Mi-Wave** for

Operating Specifications

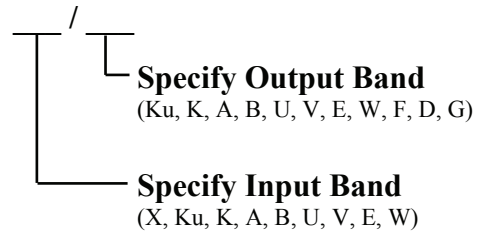
Input VSWR (Typ.).....	2:1
Harmonic Rejection.....	-20 dBc
Operating Temperature.....	0 to +60° C
Storage Temperature.....	-55° C to +125° C

Features

- Operation to 150 GHz
- High Efficiency (to 40 Percent)
- X2, X3, X4, X6, X9 Multiplication
- 1 Percent to 5 Percent Bandwidths

Ordering Information

932
933
934
936



Please be sure to specify:

- Input Power
- Input Flange
- Output Power
- Output Flange

Mi-Wave

Millimeter Wave Products Inc.

www.miwv.com

2200 Tall Pines Drive, Suite 100

Largo, FL 33771

Tel. (727) 536-0033 Fax. (727) 536-0012

E: sales@miwv.com

932, 933, 934, 936 Series High-Power Multipliers

Technical Specifications (X2, X3)

Model Number	932X 933X	932Ku 933Ku	932K 933K	932A 933A	932B 933B
Frequency Input (GHz)	8.2 - 12.4	12.4 - 18.0	18.0 - 26.5	26.5 - 40.0	33.0 - 50.0
Input Flange	UG-39	UG-419	UG-595	UG-599	UG-599M
Bandwidth (3 dB)	2%	2%	1%	1%	1%
Power Input (mW) ¹	650	650	500	300	200
Power Output (mW) ¹					
X2	280	250	180	50	40
X3	230	200	125	20	10
Output Flange					
X2	UG-595	UG-599	UG-599M	UG-385	UG-387M
X3	UG-599	UG-599M	UG-385	UG-387M	714

1. Maximum levels, specify required input/output levels.

Technical Specifications (X4, X6, X9)

Model Number	934X 936X 939X	934Ku 936Ku 939Ku
Frequency Input (GHz)	8.2 - 12.4	12.4 - 18.0
Input Flange	UG-39 or SMA-F	UG-419 or SMA-F
Bandwidth (3 dB)	1%	1%
Power Input Max.	650 mW	650 mW
Power Output Max.		
X4:	15%	12%
X6:	10%	8%
X9:	5%	On Request
Output Flange		
X4:	UG-599	UG-383 or 599M
X6:	UG-385/387	UG-387M
X9:	UG-387	UG-387M

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