

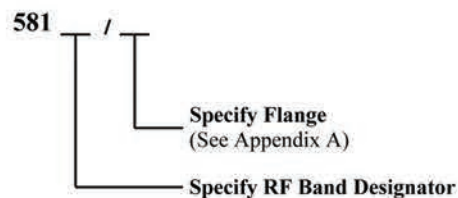
# 581 Series Medium Power Load Terminations **MI-WAVE** Millimeter Wave Products Inc.



## Features

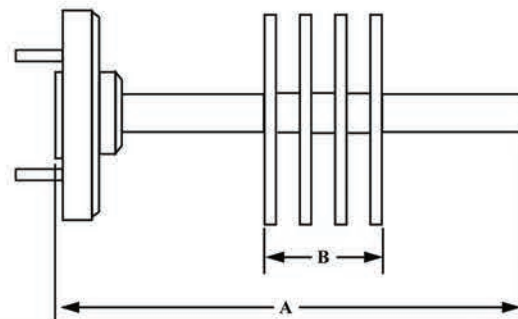
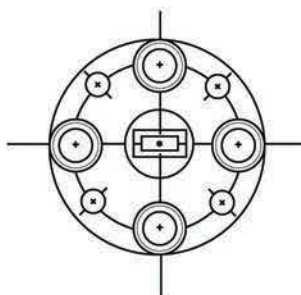
- Low VSWR
- Compact Size
- Full Waveguide Bandwidths
- Available for Low Power and Medium Power Applications

## Ordering Information



## Description

Mi-Wave's 581 series terminations are designed with standard waveguide flanges for use from 12.4 to 220 GHz. Each unit consists of a short length of waveguide and an integral matched terminal load. Individual resistive dielectric loads are tapered to precise wedge configurations for maximum effective energy absorption. The gradual taper provides a low VSWR over the full waveguide bandwidth. Please Note: For higher power requirements 582 series up to 100 watts CW, please consult Mi-Wave for technical specifications.



## Applications

The 581 series terminations are used in experimental and developmental test sets where a low VSWR wave-guide load is essential for valid and accurate measurements. These terminations will ensure precise measurement of the VSWR resulting from insertion of various waveguide components into a system.

## Dimensional Specifications

Model No	A		B	
	in	mm	in	mm
581Ku	3.88	98.6	1.50	38.1
581K	2.88	73.2	1.00	25.4
581A	2.43	61.7	1.25	31.8
581B	2.43	61.7	1.12	28.4
581U	2.43	61.7	0.75	19.1
581V	2.00	50.8	0.75	19.1
581E	2.00	50.8	0.75	19.1
581W	2.00	50.8	0.75	19.1
581F	1.38	35.1	0.75	19.1
581D	1.38	35.1	0.75	19.1
581G	1.38	35.1	0.75	19.1

## Other Waveguide Sizes:

WR-137  
WR-112  
WR-90  
WR-75  
WR-51  
WR-34

## Technical Specifications (typical)

Model Number	581Ku	581K	581A	581B	581U	581V	581E	581W	581F	581D	581G
Frequency Band (GHz)	12.4-18.0	18.0-26.5	26.5-40.0	33.0-50.0	40.0-60.0	50.0-75.0	60.0-90.0	75.0-110.0	90.0-140.0	110.0-170.0	140.0-220.0
VSWR Max.	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.15	1.15	1.15
Average Power (Watts)	10.0	8.0	7.0	5.0	3.0	2.0	1.8	1.2	0.4	0.3	0.2