



Section 2-6: Amplitude and Video frequency Detector Series

www.3jmicrowave.com

Frequency Coverage: 18 to 110 GHz

Applications:

- Microwave & Millimeter Amplitude Detection
- Instrumentations
- Test Bench

Features:

- High Voltage and TSS Sensitivities
- Wide Video Bandwidth Coverage
- Full-Band Coverage in 8 Waveguide Bands



Descriptions:

3J Microwave, Inc. offers a complete line of full band waveguide amplitude and video frequency detectors in 8 waveguide bands from K to W. The available state-of-the-art solid-state devices, technologies are utilized in the detectors. The detectors are designed for detecting RF amplitude. In some applications custom-specified video frequency bandwidth can be chosen in the typical frequency range of 10 KHZ up to 100 MHz.

Waveguide RF connectors are designed to cover eight waveguide bands from K to W-Band in the frequency range of 18 to 110 GHz. The amplitude and video frequency detectors are designed for various applications such as RF signal amplitude detection, bench test, and instrumentations etc. The series detectors are sorted in category of **AVD** Series waveguide amplitude and video frequency full-band detectors.

AVD Full Band Amplitude and Video Frequency Detector Specifications:

Model Number***	RF Freq (GHz)	Voltage Sensitivity* (mV/mW)	TSS (dBm)	Power Handling (dBm)	Video Bandwidth** (MHz)	RF/LO Connector	Outline
AVD-x00	18-27	1600	-48	+20.0	0.01 to 100	WR-42/UG595-U	E01
	22-33	1300				WR-34/UG595-U	E02
	26-40	1300				WR-28/UG599-U	E03
	33-50	1200				WR-22/UG383-U	E04
	40-60	1000				WR-19/UG383-U	
	50-75	800				WR-15/UG385-U	
	60-90	700				WR-12/UG385-U	
	75-110	600				WR-10/UG387-UM	

* Tested at RF power of -20 dBm

** Please consult the factory for the video bandwidth details

*** Please see "how to order" for the model number details

How to Order:

AVD-x 00

Waveguide Band

Factory Reserved

WG-BAND	K	WR34	Ka	Q	U	V	E	W
Designation	K	J	A	Q	U	V	E	W