

Description

Mi-Wave's 950 Series detectors convert incident RF energy into a DC voltage signal.

Notes

1) Detectors are tested at -20dbm power level 2) Negative Polarity detectors are also available. 3) Detector will be in compression above -15dBm.

S/N: N/A

Electrical Specifications

	Minimal	Typical	Maximum
Frequency	33 GHz		50 GHz
Video Sensitivity Extrapolated from -20dbm power vs mV data		1200 mV/mW	
Sensitivity Flatness		±2 dBm	
Input Power			17 dBm
Max RF Input Power for Square Law Region			-20 dBm
Return Loss		15 dB	
Video Bandwidth	1 GHz		
Output Voltage Polarity		Positive	
Specification Temperature		25° C	
Operating Temperature	0° C		50° C

Physical Specifications

RF Port	WR-22 Waveguide, UG-383 Flange
DC Port	SMA(F)
Case Material	Brass
Finish	Gold Plated



Tested by: MS

Date: 2020-04-08



Frequency vs Output Voltage Data with -20 dBm Input RF power

Item No:	Frequency (GHz)	Output Voltage (mV)
1.	33	37.7
2.	34	35
3.	35	27.2
4.	36	22.8
5.	37	37.4
6.	38	38.6
7.	39	45.1
8.	40	42.4
9.	41	41.8
10.	42	31.4
11.	43	36.2
12.	44	28.9
13.	45	25.5
14.	46	23

Notes:

S/N: CWZYWY

Tested by: Kyle

Date: 2022-08-29



Frequency vs Output Voltage Data with -20 dBm Input RF power

Item No:	Frequency (GHz)	Output Voltage (mV)
15.	47	19.5
16.	48	37.1
17.	49	23.9
18.	50	31.5
19.		
20.		
21.		
22.		
23.		
24.		
25.		
26.		
27.		
28.		

Notes:

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Tested by: Kyle

Date: 2022-08-29

