

Description

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

Notes

1) Detectors are tested at -20 dBm power level and extrapolated to 1 mW 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	40 GHz		60 GHz
Video Sensitivity		1100 mV/mW	
Tangential Sensitivity		-55 dBm	
Sensitivity Flatness		±1.5 dB	
RF Power Handling			17 dBm
Dynamic Range		-55 to +10 dBm	
Detection Speed, Rise Time (50 ohm load)		5 nS	
Output Voltage Polarity		Positive	
Specification Temperature		25° C	
Operating Temperature	0°C		50° C
RF Input Power		-20 dBm	

Physical Specifications

RF Port	WR-19 Waveguide, UG-383 Flange
DC Port	SMA(F)
Material Type	Brass
Finish	Gold Plated



Tested by: MS

Date: 2020-10-20



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

Item No:	Frequency (GHz)	Output Voltage (mV)
1.	40	36.5
2.	41	61.2
3.	42	41.8
4.	43	55.1
5.	44	40.7
6.	45	52.3
7.	46	36
8.	47	37.8
9.	48	54.7
10.	49	30.5
11.	50	50.5
12.	51	20.6
13.	52	47.4
14.	53	25.7

Notes:

S/N: NWZYI4

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.	54	28.6
16.	55	40.8
17.	56	12.1
18.	57	39.4
19.	58	10.5
20.	59	9.3
21.	60	16.5
22.		
23.		
24.		
25.		
26.		
27.		
28.		

Notes:

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