

**Description**

Mi-Wave's 950 Series detectors convert incident RF energy into a DC voltage signal. The function of these detectors is similar to power sensors, with two exceptions.

**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: 953

**Electrical Specifications**

	<b>Minimal</b>	<b>Typical</b>	<b>Maximum</b>
Frequency	26.5 GHz		40 GHz
Video Sensitivity		1500 mV/mW	
Sensitivity Flatness		±2 dB	
Input Power			17 dBm
Max Input Power for Square Law Region			-20 dBm
Video Bandwidth	1 GHz		
Output Voltage Polarity		Positive	
Specification Temperature		25° C	
Operating Temperature	0° C		50° C

**Physical Specifications**

RF Port	WR-28 Waveguide, UG-599 Flange
DC Port	SMA(F)
Finish	Gold Plated



Tested by: MS

Date: 2020-10-16



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

Item No:	Frequency (GHz)	Output Voltage (mV)
1.	26.5	41.7
2.	27	32
3.	28	34
4.	29	42.2
5.	30	461
6.	31	42.5
7.	32	40.4
8.	33	37.9
9.	34	38.1
10.	35	48.1
11.	36	26.1
12.	37	42.2
13.	38	42.4
14.	39	37.4

Notes:

S/N:2WZY55

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.	40	36.5
16.		
17.		
18.		
19.		
20.		
21.		
22.		
23.		
24.		
25.		
26.		
27.		
28.		

Notes:

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