

Description

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

Notes

Detector will be in compression above -15dBm. Output voltage measured at -20dbm RF input and extrapolated to 0 dbm in mV/mW

S/N: NA

Electrical Specifications

	Minimal	Typical	Maximum
Frequency	75 GHz		110 GHz
Video Sensitivity		750 mV/mW	
Sensitivity Flatness		±2.0 dB	
Tangential Sensitivity		-45 dBm	
RF Power Handling			+17 dBm
Polarity		Positive	
Detection Speed, Rise Time (50 ohm load)		5 nS	
Specification Temperature		25° C	
Operating Temperature	0° C		50° C

Physical Specifications

RF Port	WR-10 Waveguide, UG-387/U-M Flange
DC Port	SMA(F)
Material Type	Brass
Finish	Gold Plated



Tested by: MS

Date: 2020-10-13



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

Item No:	Frequency (GHz)	Output Voltage (mV)
1.	75	17.3
2.	76	24.7
3.	77	22.8
4.	78	20.6
5.	79	19.8
6.	80	18.6
7.	81	22.3
8.	82	21.4
9.	83	22.8
10.	84	23.5
11.	85	22.7
12.	86	19.8
13.	87	16.4
14.	88	15.6

Notes:

S/N:HXZYG4

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.	89	19.1
16.	90	20.4
17.	91	9.8
18.	92	12.3
19.	93	13.2
20.	94	10.5
21.	95	14
22.	96	12.6
23.	97	7.9
24.	98	10.8
25.	99	11.7
26.	100	11.1
27.	101	6.8
28.	102	7.7

Notes:

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Date: 2022-08-29



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

Item No:	Frequency (GHz)	Output Voltage (mV)
1.	103	7.4
2.	104	7.8
3.	105	9.8
4.	106	6.6
5.	107	6.5
6.	108	5.4
7.	109	4.9
8.	110	8.5
9.		
10.		
11.		
12.		
13.		
14.		

Notes:

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