



Planar Monolithics Industries, INC.

**SUMMARY TEST DATA ON DIRECTIONAL DETECTOR**

Customer	
Job No	
Model No	: <u>DD-20-23</u>
Serial No	: <u>PM112519</u>

Tested By	: <u>Kevin Mason</u>
Temperature	: <u>+25°C</u>
Date	: <u>12/13/01</u>

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE			REMARKS QA/QC
1	Frequency	2.5-3.0 GHz	pass			
2	Insertion Loss	0.25dB max.	0.60 dB			
3	Insertion Loss Variation Over Freq.	0.2dB max.	0.21 dB			
4	VSWR	1.25:1 max.	Pass (see plot)			
5	Max. Input Power	3 Watts	pass			
6	Supply Voltage	±15VDC	ok			
7	Impedance	50 Ohms	50 Ohms			
8	Min. Directivity	20dB min.	pass			
9	Output Voltage Variation With Freq. and Temp.	±0.2dB max.	pass			
10	Detector Output Voltage: <u>Power In</u>	<u>Voltage Output</u>	2.5 GHz (mV)	2.75 GHz (mV)	3.0 GHz (mV)	
	+26dBm	150-220 mV	151.10	152.18	158.01	
	+23dBm	94-130 mV	97.98	101.66	106.92	
	+20dBm	58-83 mV	67.02	69.22	72.93	
	+16dBm	31-46mV	41.75	42.61	44.83	
11	Video BW	10 MHz min.	pass			

Production Manager Approval: \_\_\_\_\_ Date: \_\_\_\_\_

QA/QC Approval: \_\_\_\_\_ Date: \_\_\_\_\_

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