

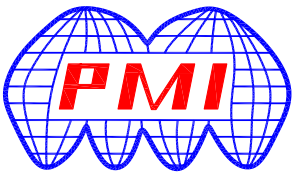
Typical Characteristics For SDD-6G18G-2200-SFF

PMI MODEL SDD-6G18G-2200-SFF IS A SCHOTTKY DIODE DETECTOR OPERATING OVER THE RANGE OF 6.0 GHz TO 18.0 GHz. THIS MODEL OFFERS A SENSITIVITY OF 2200 mV/mW MINIMUM (2600 mV/mW TYPICAL) AND A FLATNESS OF ± 1 dB.



September 15, 2015
RF Design By: PMI Engineering
Reported By: Matthew Berry

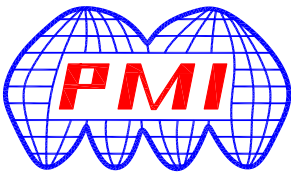
7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com



Typical Characteristics For SDD-6G18G-2200-SFF

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PRODUCT FEATURE

DESCRIPTION

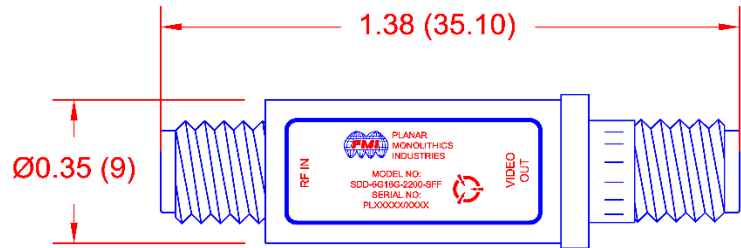
PMI MODEL: SDD-6G18G-2200-SFF IS A BIASED SCHOTTKY DIODE DETECTOR THAT OPERATES OVER THE 6.0 GHz TO 18.0 GHz RANGE. THIS MODEL OFFERS OUTSTANDING SENSITIVITY AS WELL AS EXCELLENT FREQUENCY FLATNESS PERFORMANCE OF ± 1 dB.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	08/15/15	

SPECIFICATIONS

- FREQUENCY RANGE: 6.0 TO 18.0 GHz
- FLATNESS @ -20 dBm: ± 1 dB
- SENSITIVITY: 2200 mV/mW MIN
2600 mV/mW TYP
- VSWR: 2.5:1 TYP
4:1 MAX
- OUTPUT CAPACITANCE: 10 pF MAX
- VIDEO IMPEDANCE: 100 Ω TYP
350 Ω MAX
- BIAS: 150 μ A
- POWER HANDLING: +20 dBm CW
+26 dBm PULSED (25% DUTY CYCLE)
- CONNECTORS: SMA FEMALE

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
-55 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202G, METHOD 103B COND. B
- SHOCK: MIL-STD-202G, METHOD 213B COND. B
- VIBRATION: MIL-STD-202G, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202G, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202G, METHOD 107G COND. A

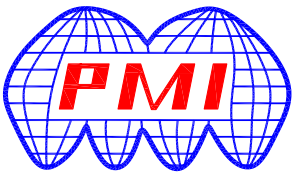
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE	
DRAWN <i>M. Berry</i>		08/15/15	PRODUCT FEATURE SDD-6G18G-2200-SFF	
CHECKED			SIZE: A	FORM NO: 05XQ0
ISSUED			DWG NO:	PRELIMINARY
			SCALE: N.S	REV: -
			SHEET: 1	OF 1

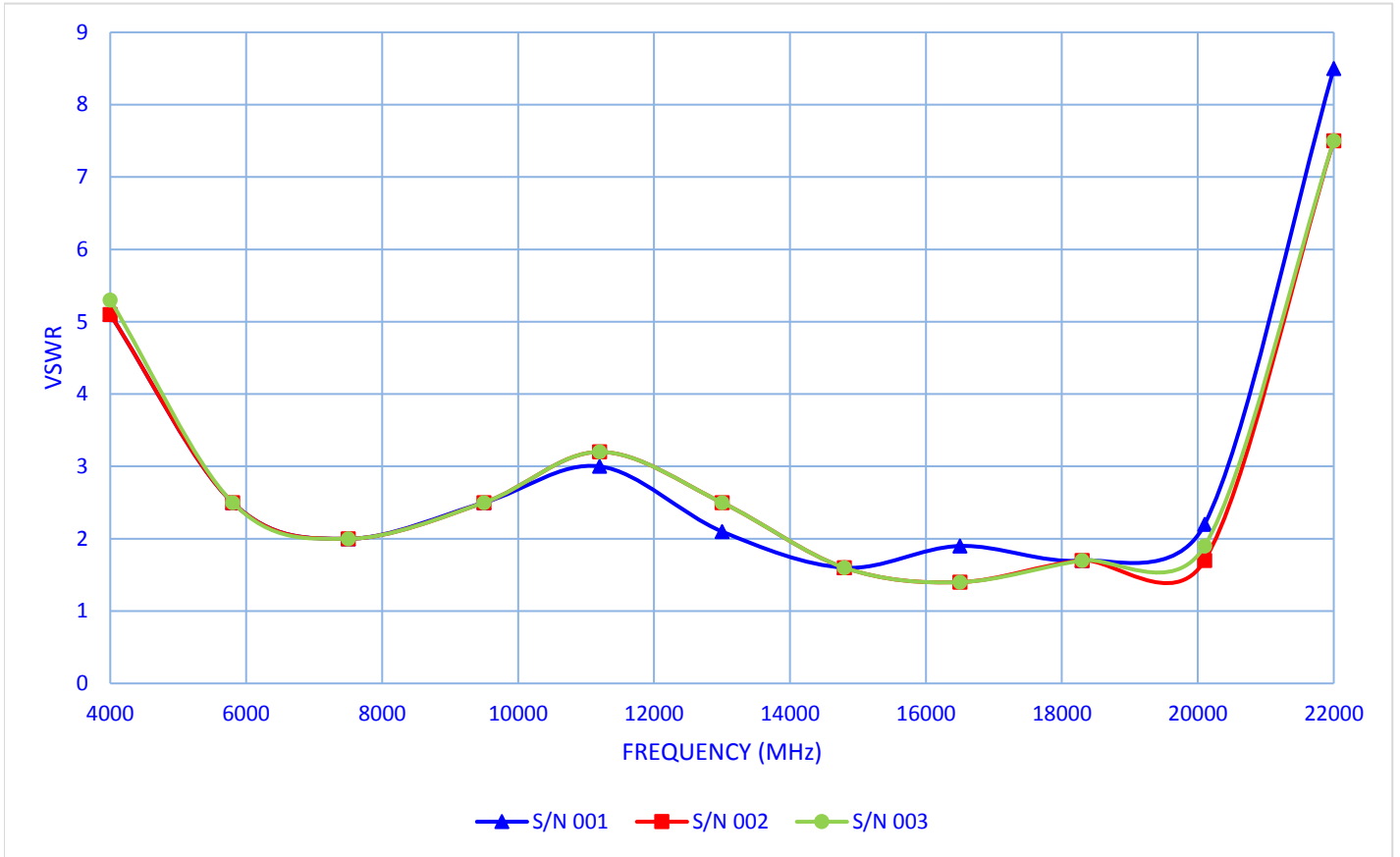


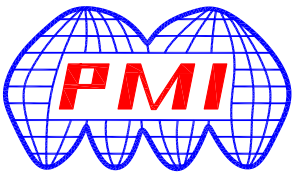
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ELECTRICAL TEST: AMBIENT TEMPERATURE

PARAMETER	TEST CONDITION	LIMIT	S/N 001	S/N 002	S/N 003
Frequency		6.0 TO 18.0 GHz	PASS	PASS	PASS
Flatness	Ib = 150 μ A, Pin = -20 dBm	± 1 dB	PASS	PASS	PASS
Sensitivity	Ib = 150 μ A	2000 mV/mW	PASS	PASS	PASS
VSWR	Ib = 150 μ A	4.0:1 MAX	PASS	PASS	PASS

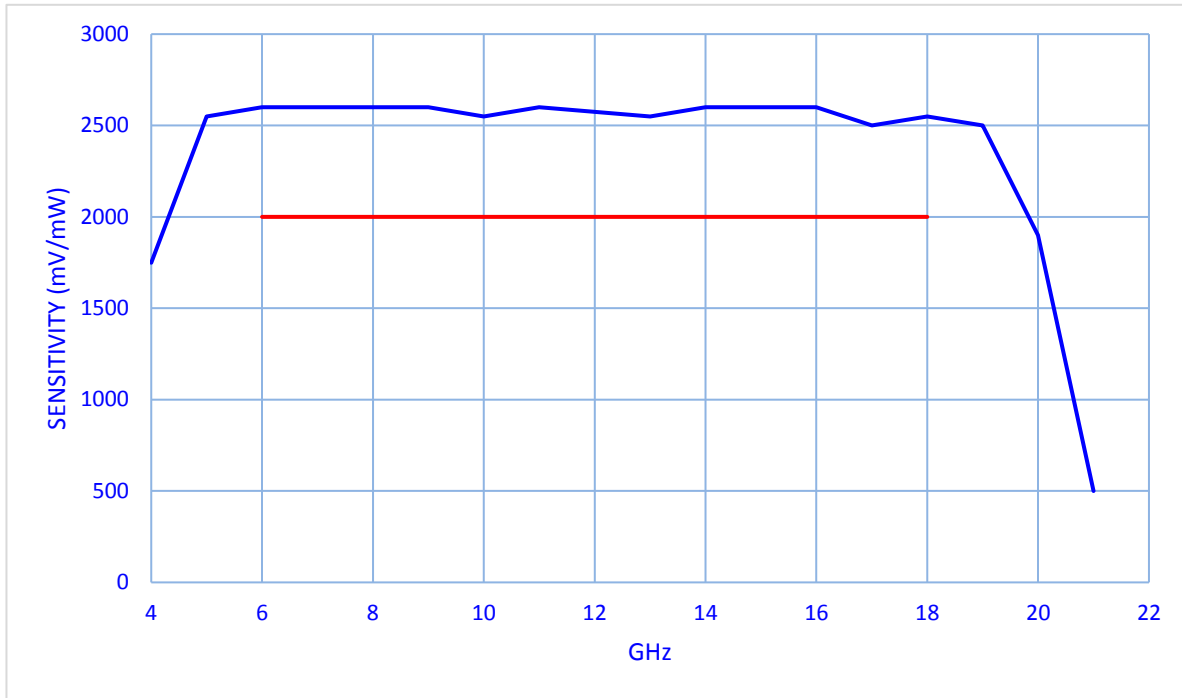
INPUT VSWR DATA PLOT



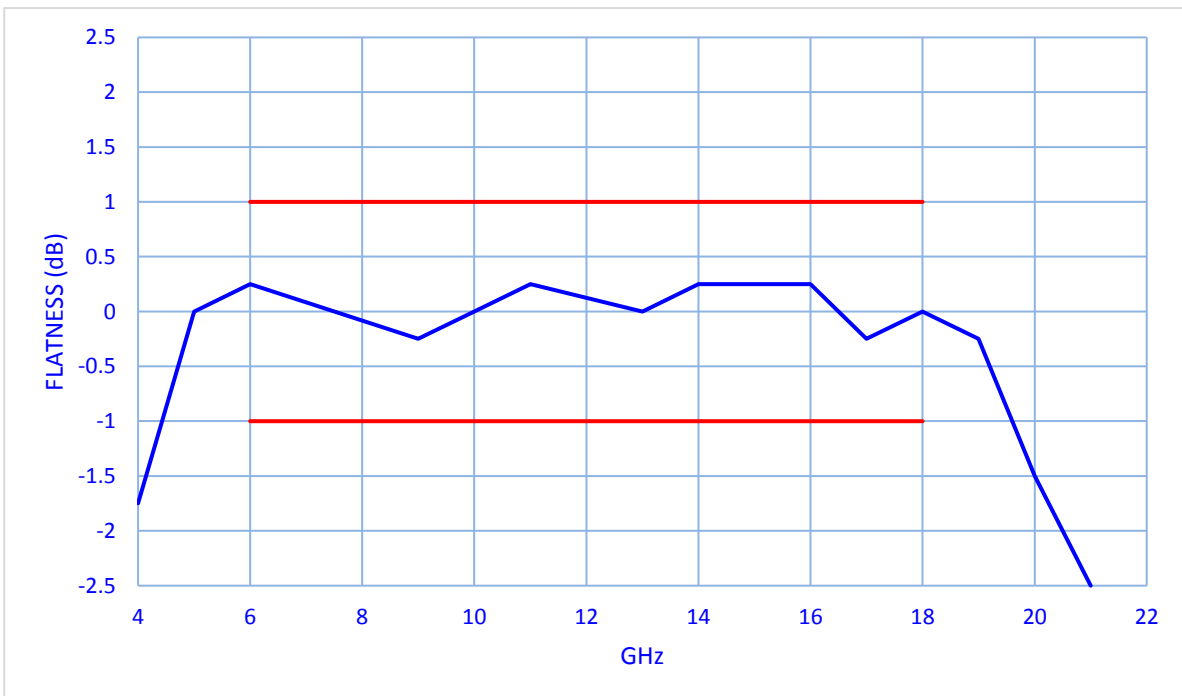


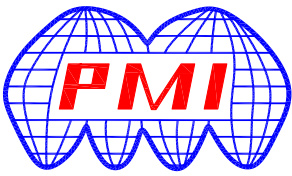
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S/N 001 SENSITIVITY



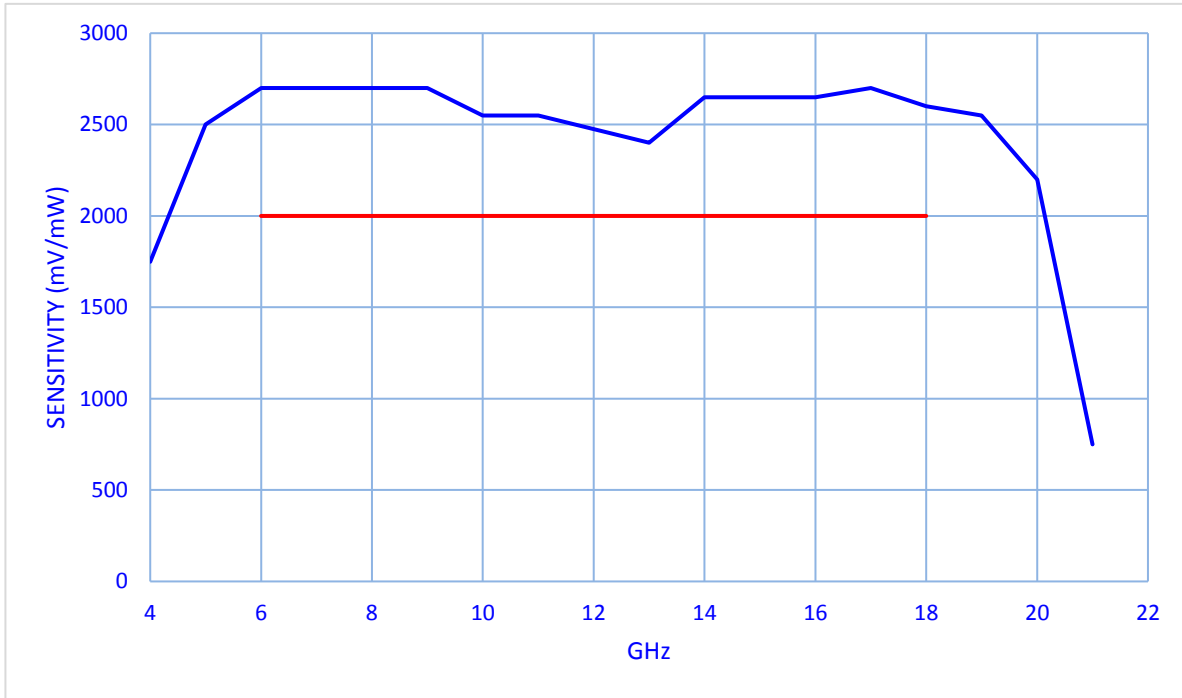
S/N 001 FLATNESS



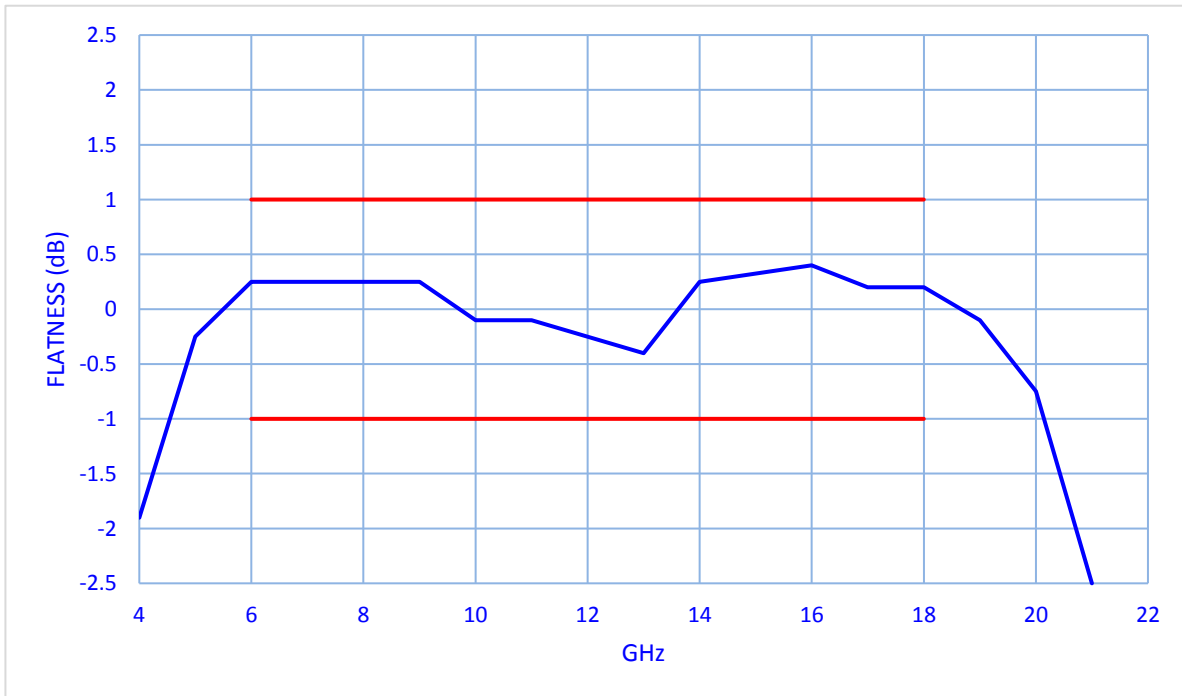


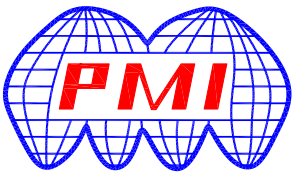
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S/N 002 SENSITIVITY



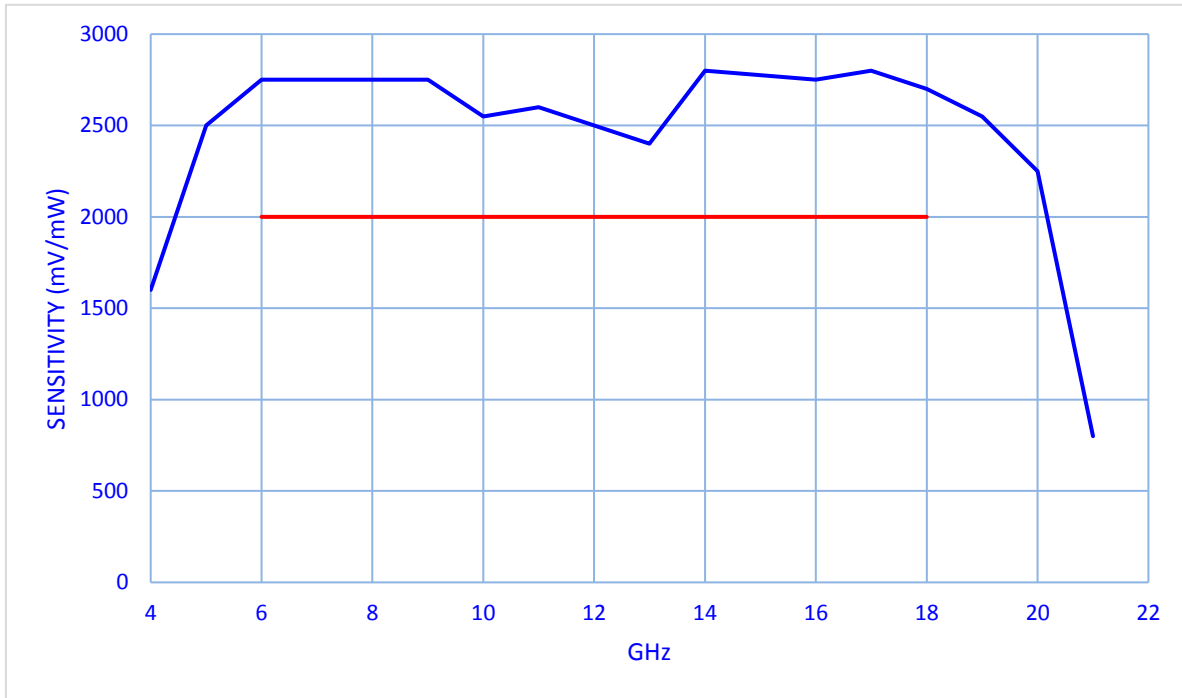
S/N 002 FLATNESS





Typical Characteristics For SDD-6G18G-2200-SFF

S/N 003 SENSITIVITY



S/N 003 FLATNESS

