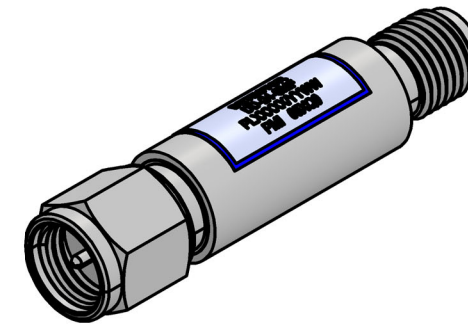


DESCRIPTION:

PMI MODEL DD-24-SMF IS A HIGH SPEED, HIGH SENSITIVITY DIODE DETECTOR REQUIRING NO BIAS AND OFFERING EXCELLENT TEMPERATURE STABILITY, WITH A RISE TIME OF LESS THAN 20 NANoseconds. THE FREQUENCY RANGE IS 2 TO 4 GHz.

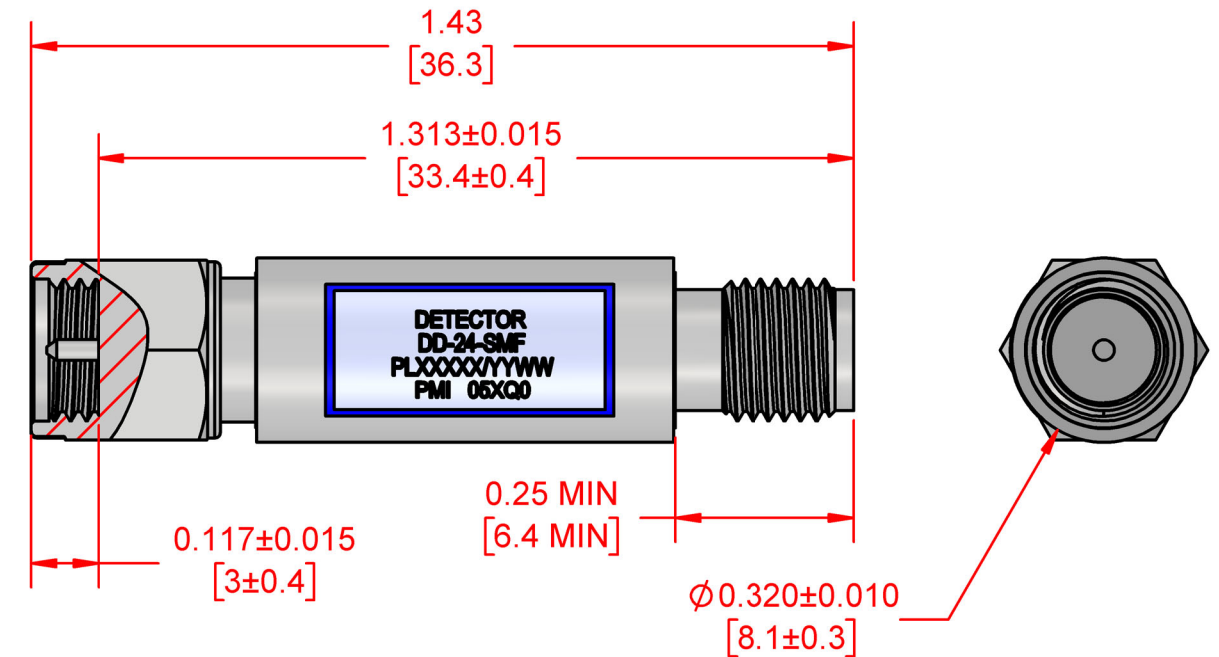
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/22/2022	
	B1	SEE ECN #22-0122	9/26/2022	



SPECIFICATIONS:

- FREQUENCY RANGE:..... 2 TO 4 GHz
- VSWR IN:..... 2.5:1 MAX (MEASURED @ -23 dBm)
- FREQUENCY FLATNESS:..... ±0.5 dB
- RISE TIME:..... 20 ns MAX
- VOLTAGE SENSITIVITY:..... 1000 mV/mW
- TANGENTIAL SENSITIVITY:..... -50 dBm @ 2 MHz VIDEO BANDWIDTH (WITH 2 dB NOISE FIGURE AMPLIFIER)
- VIDEO CAPACITANCE:..... 47 pF NOM
- OUTPUT VOLTAGE:..... POSITIVE
- MAX INPUT POWER:..... +20 dBm MAX
- CONNECTORS:..... SMA (M) RF INPUT / SMA (F) VIDEO OUTPUT
- FINISH:..... NICKEL PLATED
- SIZE:..... (L) 1.43" x (W) 0.32" x (H) 0.38"

ALL SPECIFICATIONS ARE TESTED WITH A HIGH IMPEDANCE TERMINATION AND WITH AN INPUT OF -20 dBm UNLESS OTHERWISE SPECIFIED.



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -54°C TO +85°C (OPERATING)
-65°C TO +100°C (STORAGE)
- ALTITUDE (NON-OP):..... MIL-STD-202, METHOD 105, TEST COND. 40,000 FEET
- ALTITUDE (OPERATING):..... MIL-STD-202, METHOD 105, TEST COND. 8,000 FEET
- VIBRATION (NON-OP):..... MIL-STD-202, METHOD 204, TEST COND. A
- SHOCK (NON-OP):..... MIL-STD-202, METHOD 213, TEST COND. A
- HUMIDITY AND MOISTURE RESISTANCE:..... MIL-STD-202, METHOD 106
- SALT-SEA ATMOSPHERE:..... MIL-STD-202, METHOD 101, TEST COND. B, USING A 5% SALT SOLUTION
- HIGH TEMPERATURE:..... MIL-STD-810, METHOD 501, PROCEDURE II, THE DEVICE SHALL BE OPERATED FOR A PERIOD OF 4 HOURS AT HIGH TEMPERATURE
- LOW TEMPERATURE:..... MIL-STD-810, METHOD 502. PROCEDURE I, EXCEPT MAINTAIN FOR 12 HOURS AT LOW TEMPERATURE
- THERMAL SHOCK:..... MIL-STD-810, METHOD 503, PROCEDURE I, EXCEPT LOW TEMP. SHALL BE -45.6°C
- FUNGUS:..... MIL-STD-810, METHOD 508, PROCEDURE I

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01		<table border="1"> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> <tr> <td>DRAWN M. HANKEN</td> <td>2/22/2022</td> </tr> <tr> <td>REDRAWN</td> <td></td> </tr> <tr> <td>ISSUED</td> <td></td> </tr> </table>		APPROVALS	DATE	DRAWN M. HANKEN	2/22/2022	REDRAWN		ISSUED		<p>PLANAR MONOLITHICS INDUSTRIES, INC.</p> <p>7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301)-862-5019; FAX: (301)-862-1731 WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com ISO 9001 CERTIFIED</p>	
APPROVALS	DATE												
DRAWN M. HANKEN	2/22/2022												
REDRAWN													
ISSUED													
TITLE DD-24-SMF		SIZE B	FSCM NO. 05XQ0	DWG NO. 27044160	REV. B1								
SCALE 3:1			SHEET 1 OF 1										