

DESCRIPTION:

PMI MODEL NUMBER PLNA-30-10M20-292FF-12V IS A 10 TO 20 GHz AMPLIFIER FEATURING A GAIN OF 26 dB MINIMUM, NOISE FIGURE OF 5.5 dB MAXIMUM, AND 2.92mm FEMALE CONNECTORS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/11/2026	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 10 TO 20 GHz
- GAIN:..... 30 dB TYP, 26 dB MIN
- GAIN FLATNESS @ ANY OPERATING TEMP:..... ±2.2 dB MAX
- NOISE FIGURE:..... 5.5 dB MAX (20 MHz TO 0.5 GHz)
(SEE NOTE) 3.5 dB MAX (0.5 TO 18 GHz)
3.75 dB MAX (18 GHz TO 20 GHz)
- OP1dB:..... +14 dBm MIN(10 MHz TO 18 GHz)
+13 dBm MIN (18 GHz TO 20 GHz)
- PSAT:..... +15 dBm MIN (10 MHz TO 18 GHz)
+14 dBm MIN (18 GHz TO 20 GHz)
- OIP3:..... +25 dBm TYP, +23 dBm MIN
- VSWR (INPUT):..... 2.0:1 MAX (10 MHz TO 18 GHz)
2.4:1 MAX (18 GHz TO 20 GHz)
- VSWR (OUTPUT):..... 2.2:1 MAX (10 MHz TO 18 GHz)
2.5:1 MAX (18 GHz TO 20 GHz)
- SECOND HARMONIC
-30 dBm INPUT POWER:..... 33 dBc MIN
@P1dB:..... 19 dBc MIN
@PSAT:..... 13 dBc MIN
- REVERSE ISOLATION:..... 36 dB MIN (10 MHz TO 18 GHz)
35 dB MIN (18 GHz TO 20 GHz)
- DC VOLTAGE SUPPLY:..... 12 VDC
- DC CURRENT DRAW:..... 140 mA MAX
- CONNECTORS:..... 2.92mm FEMALE REMOVABLE
- FINISH:..... GOLD PLATED

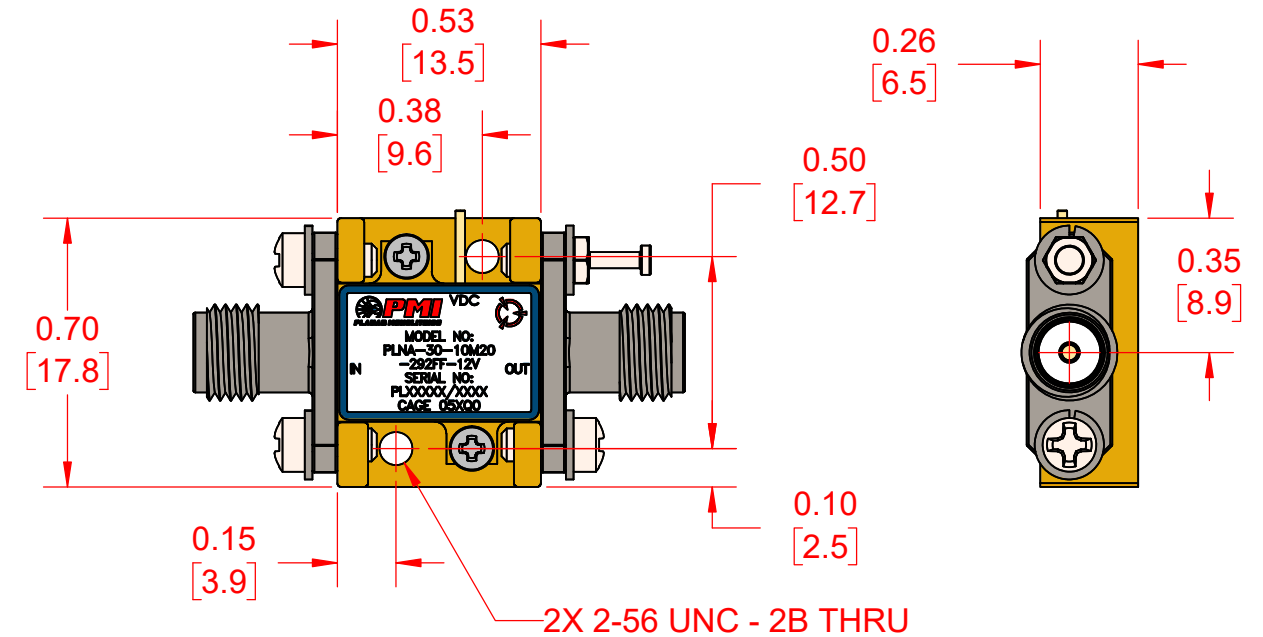
NOTE: NOISE FIGURE ONLY VALID ABOVE 20 MHz

ENVIRONMENTAL RATINGS:

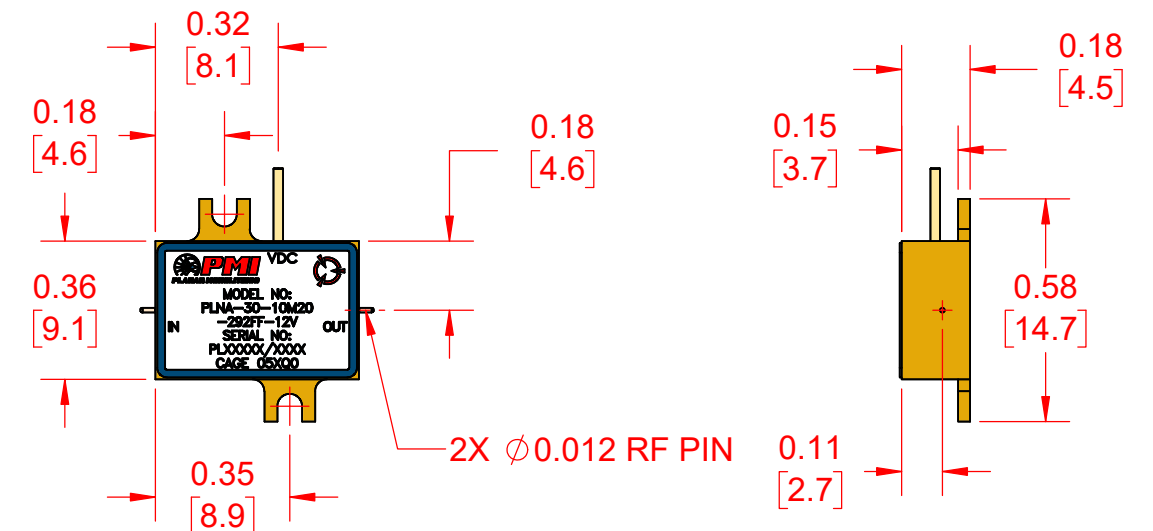
- TEMPERATURE:..... -54°C TO +85°C (OPERATING)
-57°C TO +100°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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


HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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 G.MENDEZ</td> <td>2/11/2026</td> </tr> <tr> <td>REDRAWN</td> <td></td> </tr> <tr> <td>ISSUED</td> <td></td> </tr> </table>		APPROVALS	DATE	DRAWN G.MENDEZ	2/11/2026	REDRAWN		ISSUED		 <p>7309-A GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED</p>	
APPROVALS	DATE												
DRAWN G.MENDEZ	2/11/2026												
REDRAWN													
ISSUED													
		TITLE OUTLINE PLNA-30-10M20-292FF-12V		REV. A1									
		SIZE B	FSCM NO. 05XQ0	DWG NO. 27054603									
		SCALE 2:1		SHEET 1 OF 1									