

PMI MODEL NUMBER PLN-713-27-1-LCA IS A 7 TO 13 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



DATE
May 12, 2025

Outline Drawing

DESCRIPTION:

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SPECIFICATIONS:

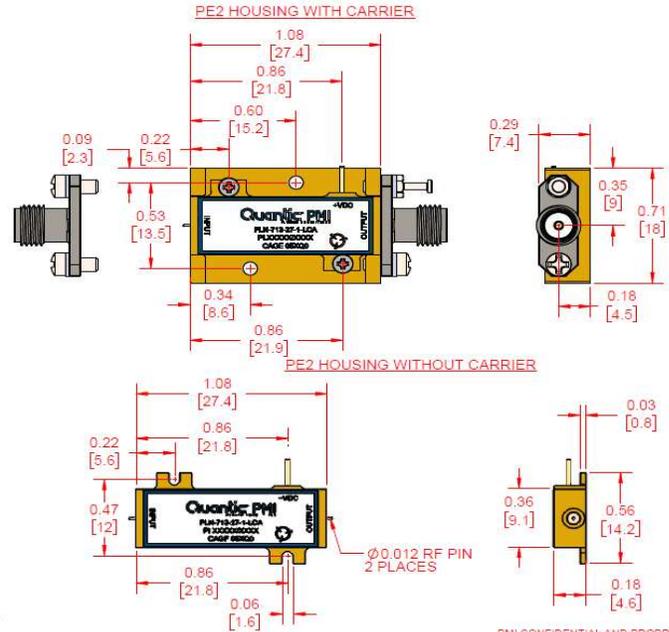
- FREQUENCY RANGE:..... 7 TO 13 GHz
- GAIN:..... 25 dB MIN
- GAIN FLATNESS:..... ±1 dB MAX
- NOISE FIGURE:..... 2 dB MAX
- OP1dB:..... 11 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 60 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B 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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/19/2004	



FMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DRAWN	R. SIRK		OUTLINE	
DESIGNED			PLN-713-27-1-LCA	
ISSUED			REV. NO.	REV.
			B 05XQ0	27050640 A1
			SCALE 2:1	SHEET 1 OF 1

Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-55°C	+85°C
1	Frequency Range:	7 TO 13 GHz	7 TO 13 GHz	7 TO 13 GHz	7 TO 13 GHz
2	Gain:	25 dB MIN	+26.01 dB Min. +27.27 dB Max. See Graph	+26.55 dB Min. +27.81 dB Max. See Graph	+25.46 dB Min. +26.83 dB Max. See Graph
3	Gain Flatness:	±1 dB MAX	+0.63 dB -0.63 dB See Graph	+0.63 dB -0.63 dB See Graph	+0.68 dB -0.68 dB See Graph
4	Noise Figure:	2 dB MAX	1.45 dB See Graph	1.23 dB See Graph	1.86 dB See Graph
5	OP1dB:	11 dBm MIN	+12.86 dBm See Graph	+12.25 dBm See Graph	+13.8 dBm See Graph
6	VSWR In/Out:	2:1 MAX	Input: 1.61 :1 Output: 1.62 :1 See Graph	Input: 1.68 :1 Output: 1.83 :1 See Graph	Input: 1.56 :1 Output: 1.51 :1 See Graph
7	DC Supply:	+12 to +15 VDC @ 60 mA MAX	+12 to +15 VDC @ 49 mA	+12 to +15 VDC @ 47 mA	+12 to +15 VDC @ 49 mA

