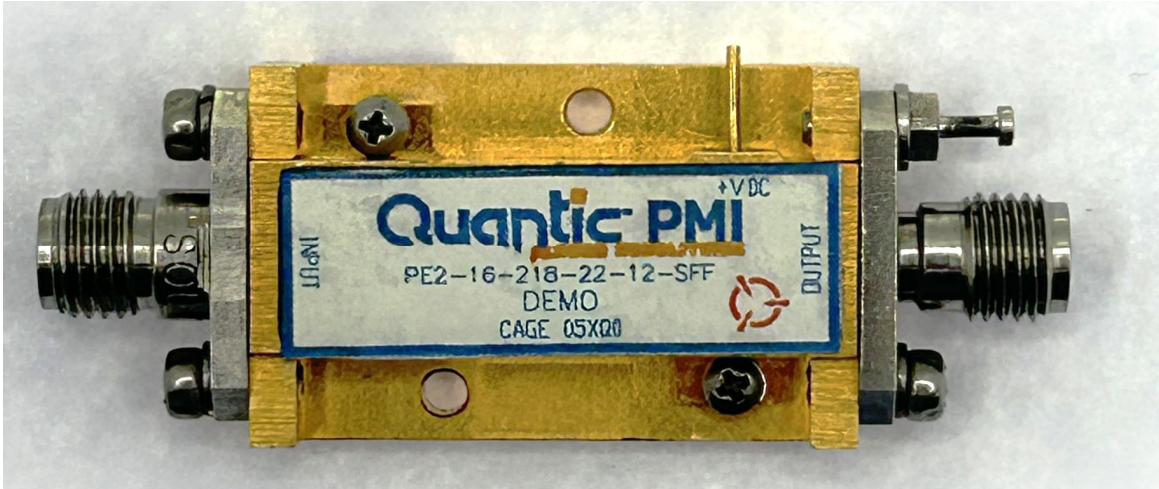


PMI MODEL NUMBER PE2-16-218-22-12-SFF IS A 2 TO 18 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY
R. SIRK

DATE
July 21, 2025

Outline Drawing

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/20/14	

DESCRIPTION:

PMI MODEL NUMBER PE2-16-218-22-12-SFF IS A 2 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.

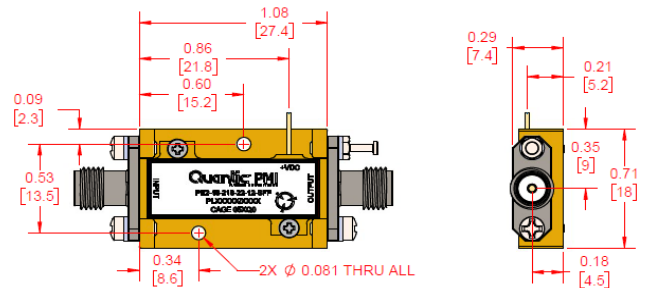
SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- GAIN:..... 16 dB TYP
15 dB MIN
- GAIN FLATNESS:..... ±1.0 dB MAX
- NOISE FIGURE:..... 6 dB MAX
- OP1dB:..... +21 dBm MIN
- RF INPUT POWER:..... +23 dBm MAX
- VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... Iq = 200 mA MAX
Ipsat = 300 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

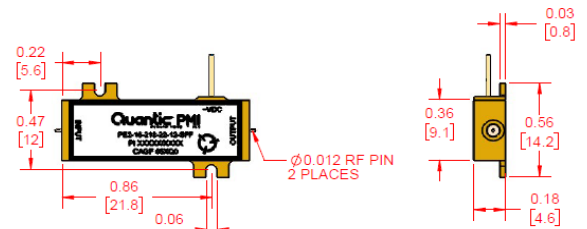
ENVIRONMENTAL RATINGS:

- 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

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	R. SIRK	3/20/14	OUTLINE	
DRAWN			PE2-16-218-22-12-SFF	
SIZE	B	FEEDBACK	DWG NO.	REV
			27048780	A1
SCALE 2:1			SHEET 1 OF 1	

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

Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			-55°C	+25°C	+85°C
1	Frequency Range:	2 GHz to 18 GHz	2 GHz to 18 GHz	2 GHz to 18 GHz	2 GHz to 18 GHz
2	Gain:	16 dB Typ 15 dB Min	+16.51 dB Min. +17.81 dB Max. See Graph	+15.84 dB Min. +16.9 dB Max. See Graph	+15.17 dB Min. +15.98 dB Max. See Graph
3	Gain Flatness:	±1.0 dB Max	± 0.65 dB	± 0.53 dB	± 0.4 dB
4	Noise Figure:	6 dB Max	4.83 dB See Graph	5.73 dB See Graph	5.93 dB See Graph
5	OP1dB:	21 dBm Min	+21.28 dBm See Graph	+21.33 dBm See Graph	+21.22 dBm See Graph
6	VSWR In/Out:	2 :1 Max	Input: 1.55 :1 Output: 1.42 :1 See Graph	Input: 1.51 :1 Output: 1.48 :1 See Graph	Input: 1.49 :1 Output: 1.52 :1 See Graph
7	DC Supply:	12 to 15 V @ Iq = 200 mA Max Ipsat = 300 mA Max	+12 to +15 VDC @ Iq = 176 mA Ipsat = 219 mA	+12 to +15 VDC @ Iq = 181 mA Ipsat = 219 mA	+12 to +15 VDC @ Iq = 186 mA Ipsat = 213 mA

