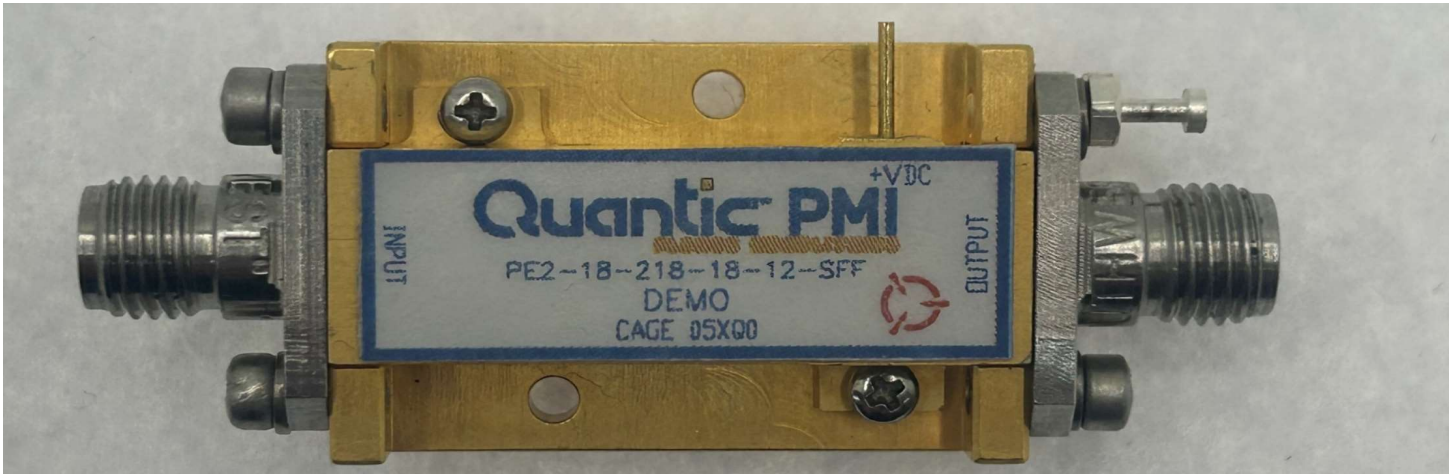


PMI MODEL NUMBER PE2-18-218-18-12-SFF IS A 2 TO 18 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY
R. SIRK

DATE
July 21, 2025

Outline Drawing

DESCRIPTION:

PMI MODEL NUMBER PE2-18-218-18-12-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:

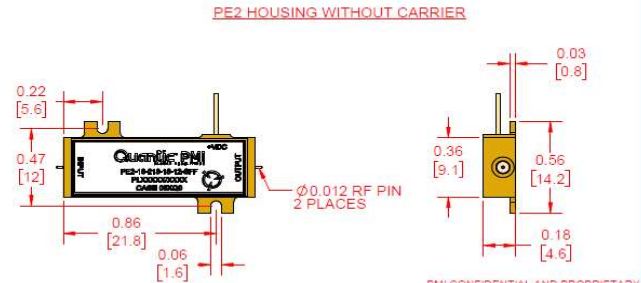
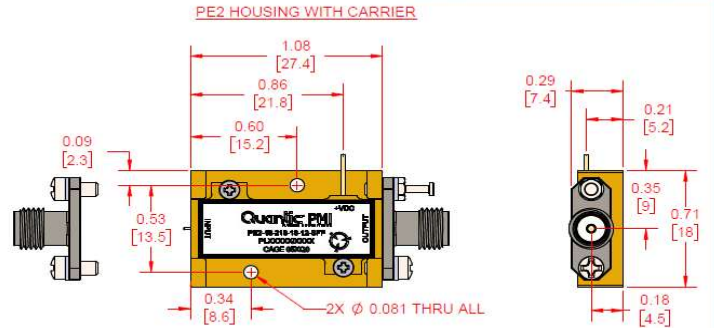
- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- GAIN:..... 18 dB TYP
17 dB MIN
- GAIN FLATNESS:..... ±1.25 dB MAX
- NOISE FIGURE:..... 6 dB MAX
- OP1dB:..... +18 dBm MIN
- RF INPUT POWER:..... +23 dBm MAX
- INPUT VSWR:..... 2.0:1 MAX
- OUTPUT VSWR:..... 2.0:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... Iq = 250 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

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/10/04	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DRAWN	R. SARK	9/10/04	OUTLINE	
ISSUED			PE2-18-218-18-12-SFF	
			REV: 05XQD	REV: A1
			SCALE: 2:1	SHEET 1 OF 1

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:	18 dB Typ 17 dB Min	+18.21 dB Min. +20.18 dB Max. See Graph	+18.01 dB Min. +19.89 dB Max. See Graph	+17.59 dB Min. +19.49 dB Max. See Graph
3	Gain Flatness:	±1.25 dB Max	± 0.99 dB	± 0.94 dB	± 0.95 dB
4	Noise Figure:	6 dB Max	4.48 dB See Graph	5.38 dB See Graph	5.67 dB See Graph
5	OP1dB:	18 dBm Min	+19.16 dBm See Graph	+19.6 dBm See Graph	+18.24 dBm See Graph
6	VSWR In:	2 :1 Max	1.54 :1 See Graph	1.51 :1 See Graph	1.51 See Graph
7	VSWR Out:	2 :1 Max	1.68 :1 See Graph	1.64 :1 See Graph	1.69 :1 See Graph
8	DC Supply:	12 to 15 V @ Iq = 250 mA Max Ipsat = 300 mA Max	+12 to +15 VDC @ Iq = 169 mA Ipsat = 214 mA	+12 to +15 VDC @ Iq = 207 mA Ipsat = 222 mA	+12 to +15 VDC @ Iq = 221 mA Ipsat = 222 mA

