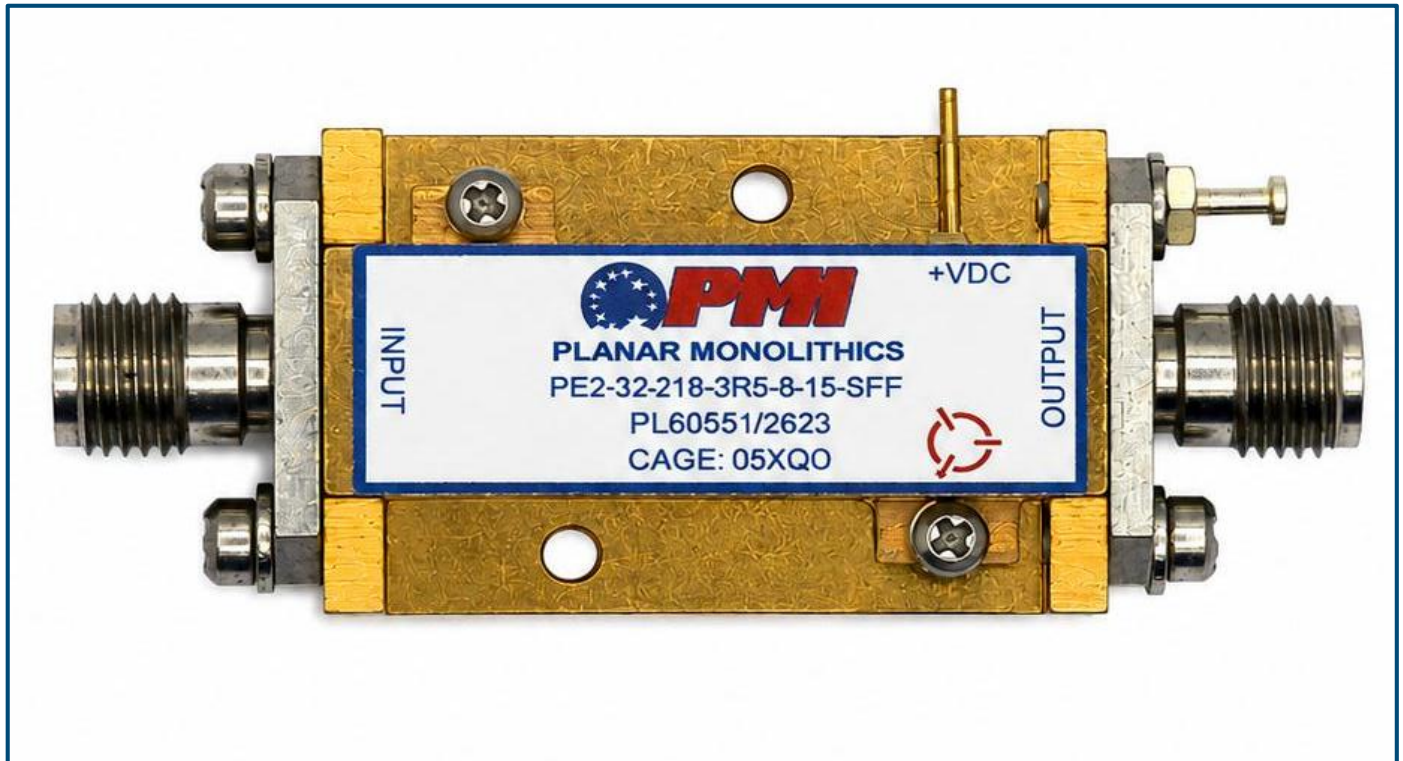




TYPICAL CHARACTERISTICS ON PE2-32-218-3R5-8-15-SFF

PMI MODEL NUMBER PE2-32-218-3R5-8-15-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 A SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY
Engineering PMI

TESTED AND REPORTED BY
V. Vasquez

DATE
June 8, 2026



TYPICAL CHARACTERISTICS ON PE2-32-218-3R5-8-15-SFF

Outline Drawing

DESCRIPTION:

PMI MODEL NUMBER PE2-32-218-3R5-8-15-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 A SURFACE MOUNT COMPONENT.

SPECIFICATIONS:

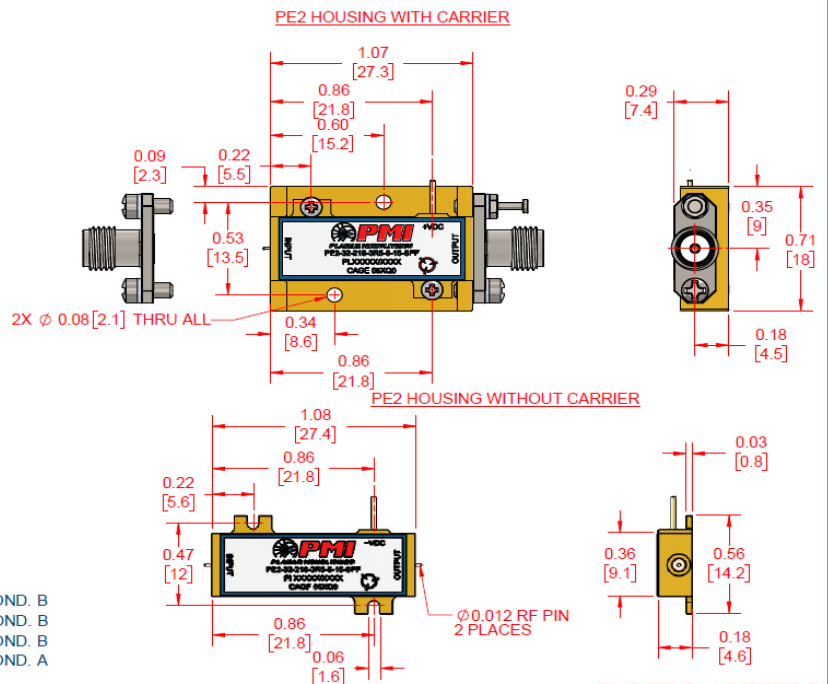
- FREQUENCY RANGE: 2 TO 18 GHz
- GAIN: 32 dB MIN
- GAIN FLATNESS: ± 2 dB MAX
- NOISE FIGURE: 3.5 dB MAX
- OP1dB: 8 dBm MIN
- VSWR (INPUT/OUTPUT): 2:1 MAX
- DC VOLTAGE SUPPLY: +12 TO +15 VDC
- DC CURRENT DRAW: 250 mA MAX
- CONNECTORS: SMA FEMALE
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -25°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. B
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 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	8/18/2009	
	B1	ECN # 26-0088	4/26/2008	
	B2	ECN # 26-0125	8/06/2008	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE	TITLE
DRAWN DPD	8/18/2009	OUTLINE
REVIEWED D. HOSCHAR	4/26/2008	PE2-32-218-3R5-8-15-SFF
TESTED		
SCALE: 2:1		SHEET 1 OF 1

TYPICAL CHARACTERISTICS ON PE2-32-218-3R5-8-15-SFF

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:	32.0 dB Min	+37.4 dB Min.	+36.4 dB Min.	+35.3 dB Min.
			+39.4 dB Max.	+37.9 dB Max.	+37.2 dB Max.
			See Graph	See Graph	See Graph
3	Gain Flatness:	±2 dB Max	± 0.99 dB See Graph	± 0.79 dB See Graph	± 0.95 dB See Graph
4	Noise Figure:	3.5 dB Max	3.2 dB See Graph	3.4 dB See Graph	3.3 dB See Graph
5	OP1dB:	8.0 dBm Min	+11.2 dBm See Graph	+10.7 dBm See Graph	+10.2 dBm See Graph
6	Psat:	11.0 dBm Min	+11.2 dBm	+11.1 dBm	+11 dBm
7	Harmonics:	Not Specified	2nd Harm: -33.7 dBc 3rd Harm: -46.1 dBc Pin @ -40dBm	2nd Harm: -37.2 dBc 3rd Harm: -50.7 dBc Pin @ -40dBm	2nd Harm: -38.1 dBc 3rd Harm: -66.5 dBc Pin @ -40dBm
			2nd Harm: -18 dBc 3rd Harm: -24.5 dBc Pin @ P1dB	2nd Harm: -20.7 dBc 3rd Harm: -29.5 dBc Pin @ P1dB	2nd Harm: -20.5 dBc 3rd Harm: -31.1 dBc Pin @ P1dB
			2nd Harm: -16.8 dBc 3rd Harm: -18 dBc Pin @ PSAT	2nd Harm: -17.2 dBc 3rd Harm: -20.2 dBc Pin @ PSAT	2nd Harm: -17.7 dBc 3rd Harm: -21.2 dBc Pin @ PSAT
8	OIP3:	Not Specified	+19.5 dBm See Graph	+20.8 dBm See Graph	+20.2 dBm See Graph
9	Max RF Input Power	Not Specified	+20 dBm	+20 dBm	+20 dBm
10	VSWR In:	2.0 :1 Max	1.8 :1 See Graph	1.8 :1 See Graph	1.7 :1 See Graph
11	VSWR Out:	2.0 :1 Max	1.5 :1 See Graph	1.5 :1 See Graph	1.5 :1 See Graph
12	DC Supply:	+12V to +15V @250 mA Max	+12 to +15 VDC @ 198 mA	+12 to +15 VDC @ 209 mA	+12 to +15 VDC @ 211 mA
13	DC Supply:	+12V to +15V (Psat)	+12 to +15 VDC @ 200 mA	+12 to +15 VDC @ 213 mA	+12 to +15 VDC @ 220 mA

