

DESCRIPTION:

PMI MODEL NUMBER QSM-218-13-5-23-SFF IS A 2 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PEAFS3 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/23/2026	

SPECIFICATIONS:

- FREQUENCY RANGE:

2 TO 18 GHz
- GAIN:

13 dB TYP, 12 dB MIN
- GAIN FLATNESS:

±1 dB MAX
- NOISE FIGURE:

5 dB MAX ≥6GHz, 9 dB MAX <6GHz
- OP1dB:

26 dBm TYP, 23 dBm MIN
- Psat:

27 dBm TYP, 24 dBm MIN
- HARMONICS:

-30 dBc MIN @-5dBm INPUT POWER
-15 dBc MIN @+7.5dBm INPUT POWER
-9 dBc MIN @+20dBm INPUT POWER
- OIP3:

+30 dBm MIN
- MAX RF INPUT POWER:

+25 dBm CW MAX
- VSWR (INPUT/OUTPUT):

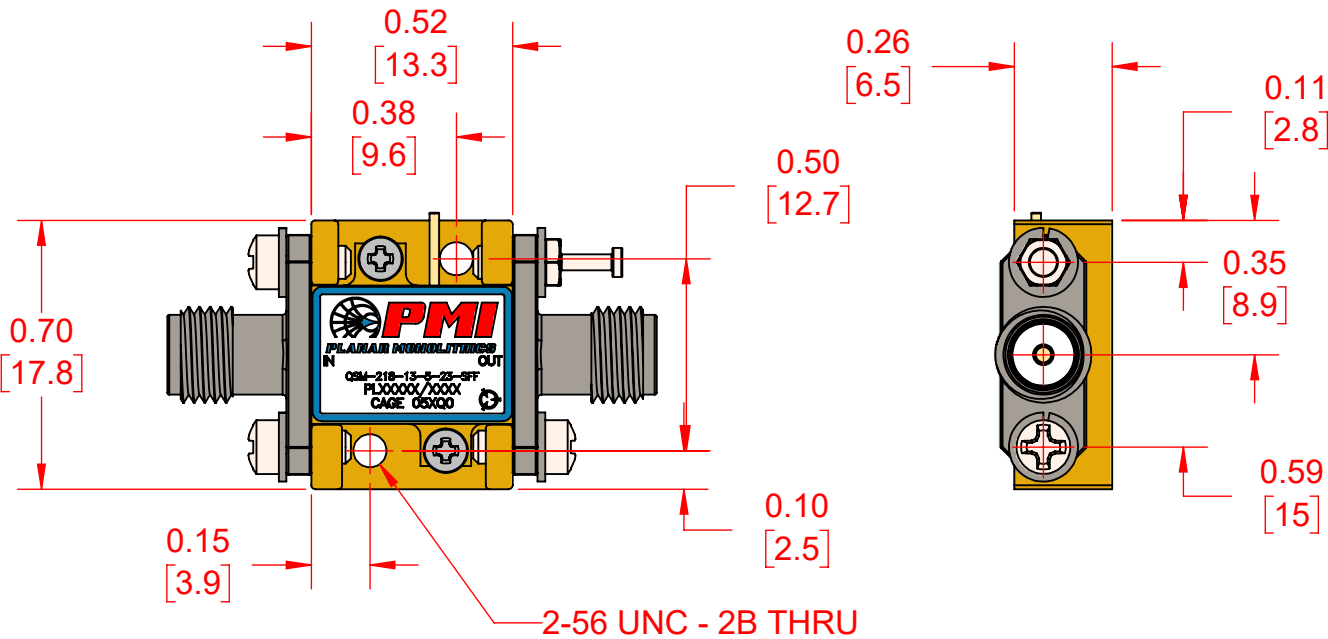
2.0:1 MAX
- DC VOLTAGE SUPPLY:

+12V to +15V @300 mA MAX (Idq)
+12V to +15V @350 mA MAX (@Psat)
- CONNECTORS:

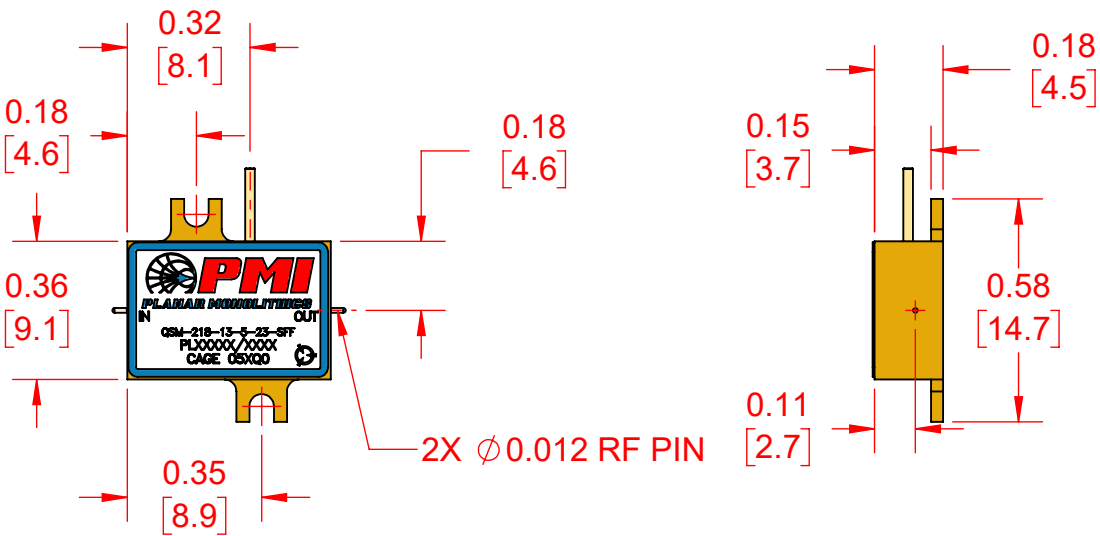
SMA FEMALE
- FINISH:

GOLD PLATED

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



ENVIRONMENTAL RATINGS:

- TEMPERATURE:

-55°C TO +85°C (OPERATING)
-55°C TO +100°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

PMI CONFIDENTIAL AND PROPRIETARY

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± XXX ± 0.01		APPROVALS	DATE	PMI PLANAR MONOLITHICS 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			
		DRAWN					
		I.Cossio	6/23/2026				
		REDRAWN					
		ISSUED		TITLE FINAL ASSEMBLY			
				SIZE	FSCM NO.	DWG NO.	REV.
				B	05XQ0	26955620	A1
				SCALE 2:1			SHEET 1 OF 1