

**DESCRIPTION:**

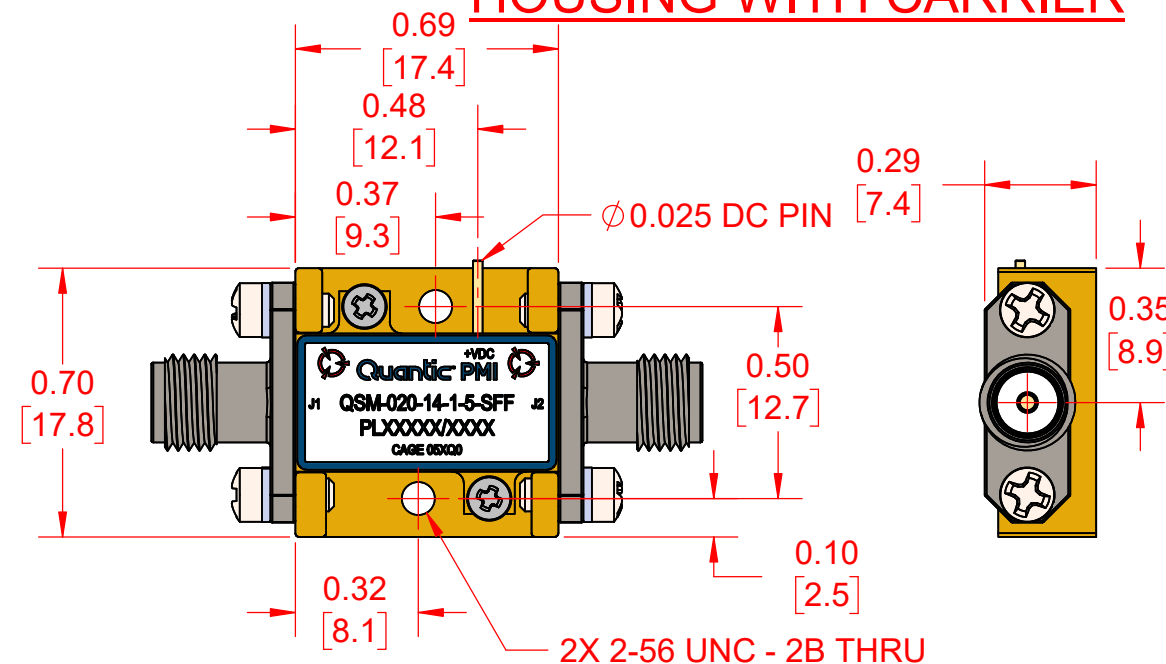
PMI MODEL NUMBER QSM-020-14-1-5-SFF IS A DC TO 20 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PEAFS3 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/20/2025	
	A2	ECN # 26-0008	1/1/32026	

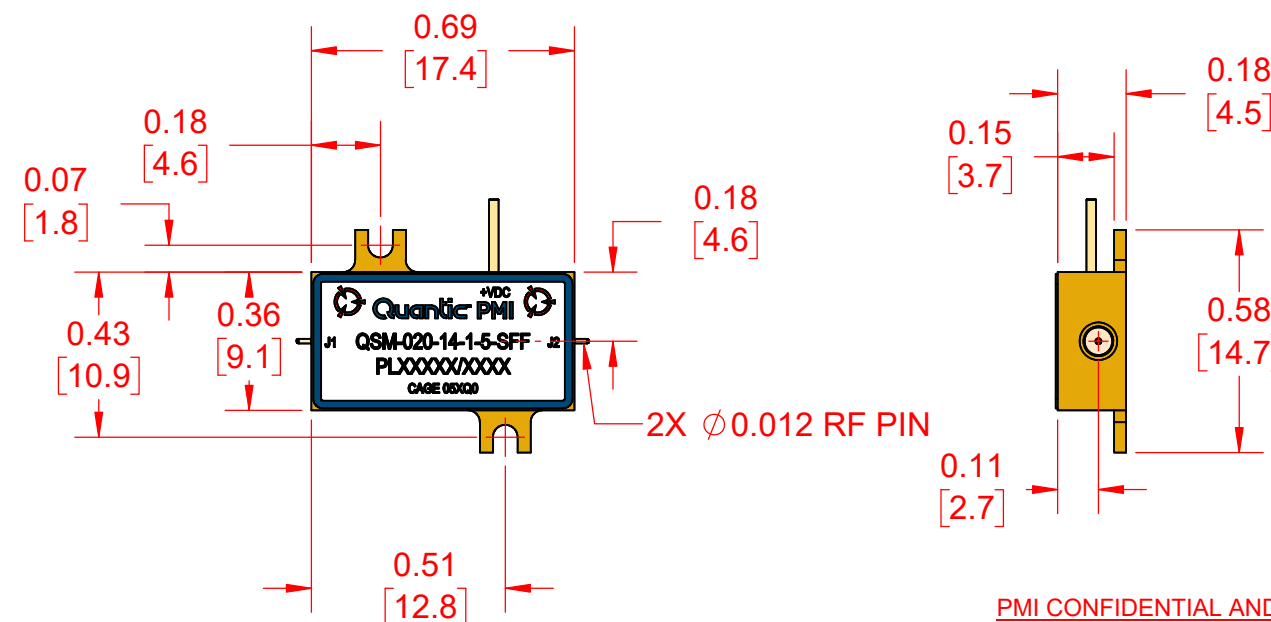
**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 100 MHz TO 20 GHz
- GAIN:..... 14 dB TYP, 12.5 MIN
- GAIN FLATNESS:..... ±1 dB MAX
- NOISE FIGURE:..... 6.5 dB MAX
- OP1dB:..... +14 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 100 mA MAX
- INPUT POWER:..... +18 dBm MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

**HOUSING WITH CARRIER**



**HOUSING WITHOUT CARRIER (SURFACE MOUNT)**



**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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN <b>B.W</b> REDRAWN ISSUED		DATE 1/20/25	<b>Quantec PMI</b> 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	
TITLE OUTLINE QSM-020-14-1-5-SFF			SIZE B	FSCM NO. 05XQ0
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			DWG NO. 27050880	REV. A2
SCALE 2:1			SHEET 1 OF 1	