

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/11/2025	

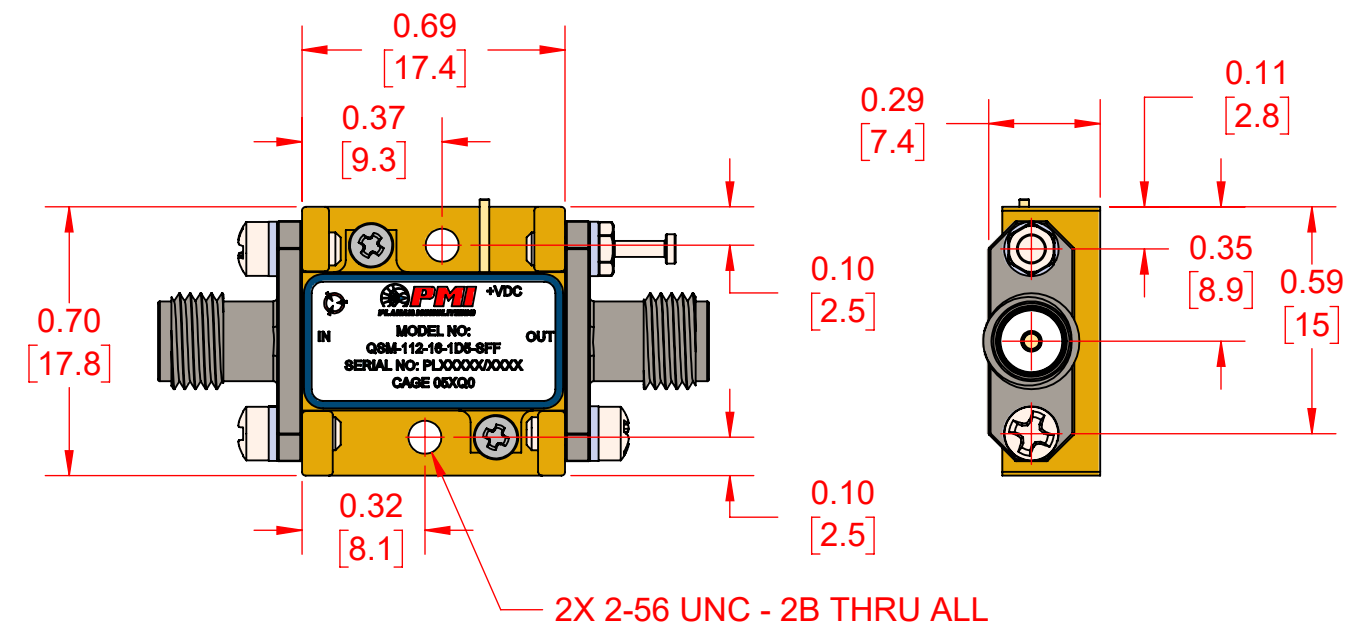
DESCRIPTION:

PMI MODEL NUMBER QSM-112-16-1D5-SFF IS A 1 TO 12 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PEAFS3 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

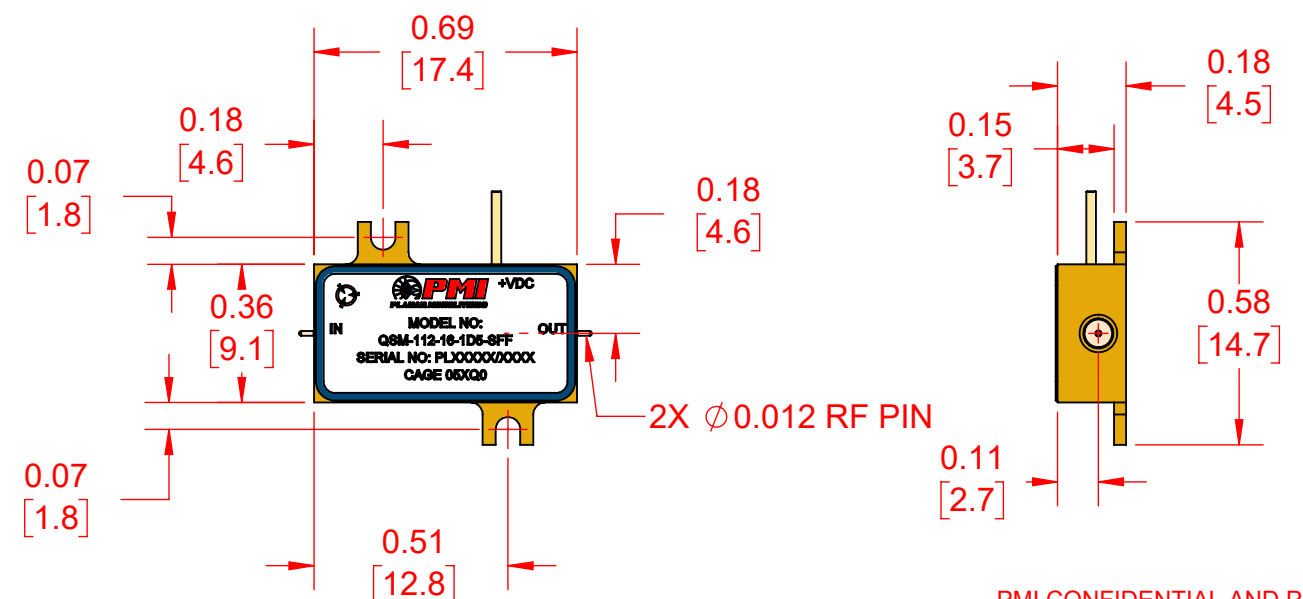
SPECIFICATIONS:

- FREQUENCY RANGE:..... 1 TO 12 GHz
- GAIN:..... 17 dB TYP, 14 dB MIN
- GAIN FLATNESS:..... ±1.25 dB TYP, ±1.5 dB MAX
- NOISE FIGURE:..... 1.75 dB TYP, 3.5 dB MAX
- OP1dB:..... 17 dBm TYP, 12 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
- RF INPUT POWER:..... +12 dBm MAX
- DC VOLTAGE SUPPLY:..... +12 V @ 100 mA MAX
- DC VOLTAGE SUPPLY(@ Psat):..... +12 V @ 100 mA 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

PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS DRAWN D. HOSCHAR REDRAWN ISSUED		DATE		 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	
		6/11/2025			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01				TITLE OUTLINE QSM-112-16-1D5-SFF	
SIZE		FSCM NO.	DWG NO.	REV.	
B		05XQ0	27052200	A1	
SCALE 2:1			SHEET 1 OF 1		