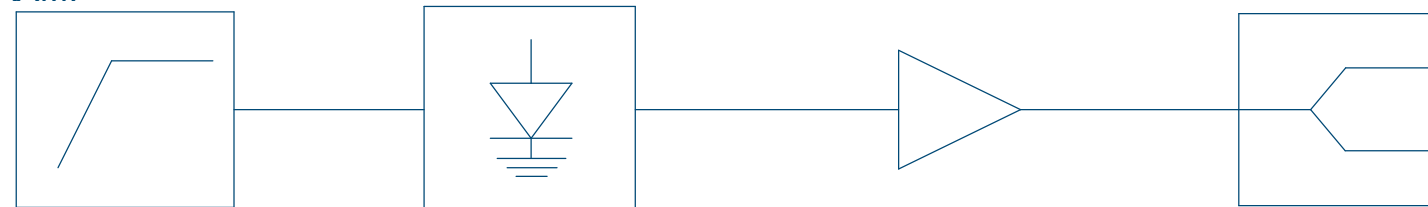


MODEL NUMBER PIA-FLA-2G18G-4-8-SFF IS AN INTEGRATED ASSEMBLY CONSISTING OF FOUR IDENTICAL CHANNELS. EACH CHANNEL FEATURES AN INPUT 2-18 GHz HIGH PASS FILTER, LIMITER, LOW NOISE AMPLIFIER AND 2 WAY POWER DIVIDER. THE GAIN IS 20 dB WITH A NOISE FIGURE OF 5 dB, OP1DB OF +10 dBm. THIS MODULE IS DESIGNED TO SURVIVE INPUT POWER LEVELS OF 1 WATT CW, 10 WATTS PEAK WITH 1 μ s PULSE WIDTH AND 1 kHz PRF.

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- GAIN:..... 20 dB MIN
- GAIN FLATNESS:..... ± 1.5 dB TYP
- NOISE FIGURE:..... 5.0 dB MAX @ ROOM TEMP
- OP1dB:..... +10 dBm MIN
- OIP3:..... +20 dBm MIN
- VSWR IN/OUT:..... 2.0:1 MAX
- INPUT POWER:..... 1 WATT CW, 10 WATTS PEAK
(1 μ s PW, 1 kHz PRF)
- CHANNEL - CHANNEL ISOLATION:..... 60 dBc MIN
- FILTER REJECTION:..... 15 dB @ 1700 MHz TYP
35 dB @ 1500 MHz TYP
80 dB @ 870 MHz TYP
- CONNECTORS:..... SMA(F)
- DC SUPPLY:..... 1.7 A I_Q @ + 12 TO + 15 VDC TYP
- FINISH:..... PAINTED BLUE
(MOUNTING SURFACE UNPAINTED AND GOLD PLATED)

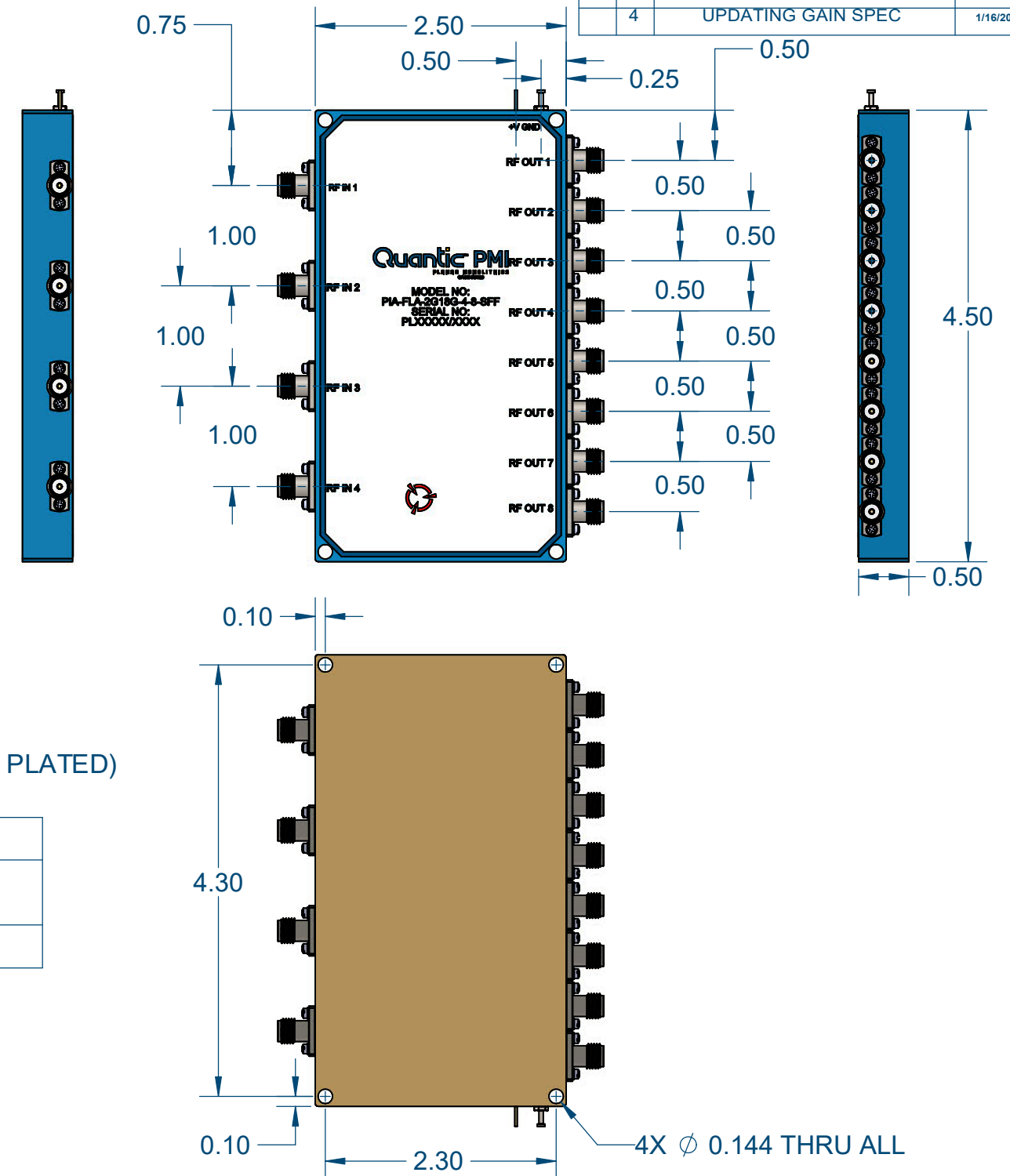
4 CHANNELS



- 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
- VIBRATION:.....MIL-STD-202, METHOD 204D 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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	11/7/2024	
	3	SUPPLY CURRENT CHANGE	12/18/2024	
	4	UPDATING GAIN SPEC	1/16/2025	



PMI CONFIDENTIAL AND PROPRIETARY

 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: <table><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td></tr><tr><td>±</td><td>.XX ± 0.02</td><td>±</td></tr><tr><td></td><td>XXX ± 0.01</td><td></td></tr></table>	FRACTIONS	DECIMALS	ANGLES	±	.XX ± 0.02	±		XXX ± 0.01			 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-9019 FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
	FRACTIONS	DECIMALS	ANGLES											
	±	.XX ± 0.02	±											
		XXX ± 0.01												
	APPROVALS	DATE	TITLE OUTLINE PIA-FLA-2G18G-4-8-SFF											
DRAWN M LAULIS	11/7/2024													
REDRAWN														
ISSUED		SIZE B	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 4									
		SCALE1:1.5			SHEET 1 OF 1									