

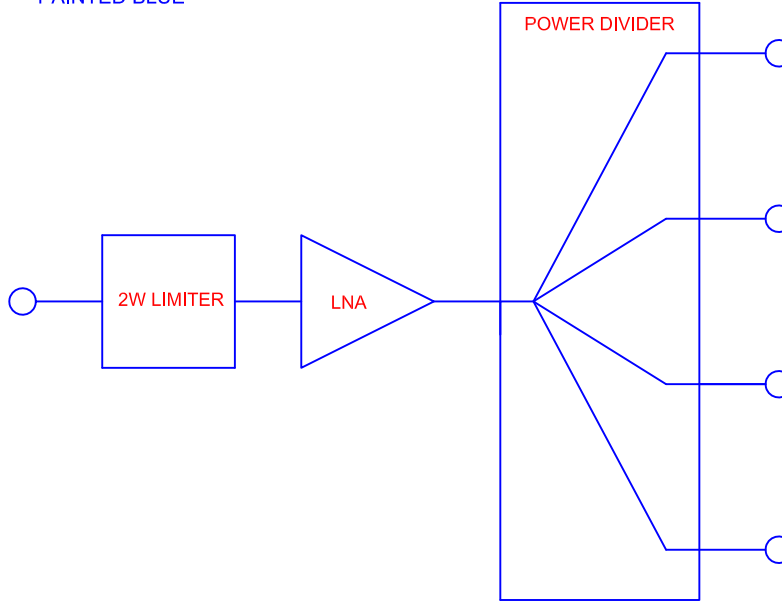
## DESCRIPTION

PMI MODEL NUMBER APD-4-20M6G-28V IS A 4-WAY AMPLIFIED POWER DIVIDER MODULE FOR USE OVER THE FREQUENCY RANGE OF 20 MHz TO 6.0 GHz WITH 3.5 dB OF GAIN, AND A TYPICAL OUTPUT P1dB OF 9 dBm. THIS MODEL IS DESIGNED TO HAVE A LOW NOISE FIGURE OVER A BROAD FREQUENCY RANGE.

## SPECIFICATIONS

- FREQUENCY RANGE: 20 MHz TO 6.0 GHz
- GAIN: 3.5 dB,  $\pm 2$ dB MAX
- VSWR: 2.5 : 1 MAX
- NOISE FIGURE: 5.5 dB (70 to 3000 MHz) MAX  
6 dB (20 to 6000 MHz) TYP
- OUTPUT POWER P1dB: 10 dBm (20 to 3000 MHz TYP)  
9 dBm (3.0 to 6.0 GHz) TYP
- INPUT POWER: 33 dBm MAX (SURVIVAL)
- POWER SUPPLY: +28V @ +200mA MAX
- SIZE: 2.00" X 2.00" X 0.40"
- WEIGHT: 100 GRAMS MAX
- FINISH: PAINTED BLUE

9-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	GND
2	GND
3	+28 VDC
4	+28 VDC
5	GND
6	GND
7	GND
8	GND
9	GND



## BLOCK DIAGRAM

## ENVIRONMENTAL RATINGS

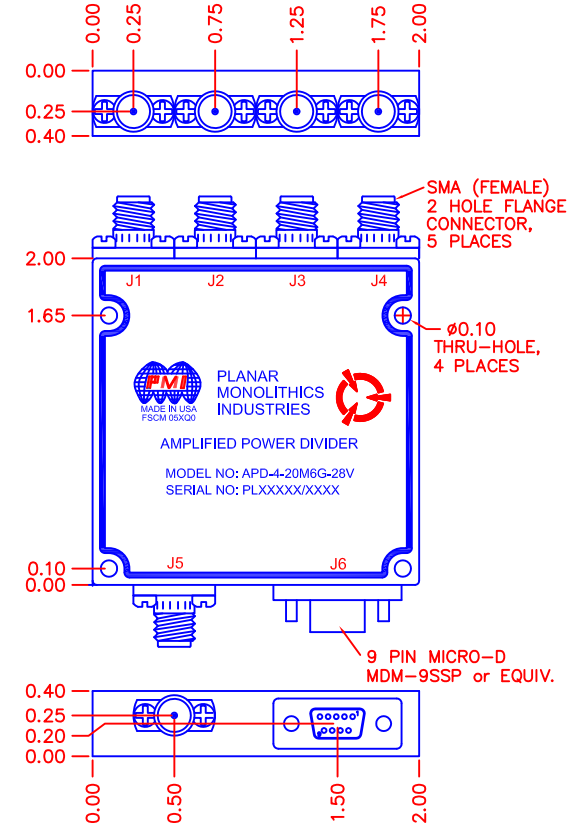
- TEMPERATURE: -40°C TO +85°C (OPERATING)  
-54°C TO +100°C (STORAGE)
- HUMIDITY: MIL-STD-202G, METHOD 103B COND. B
- SHOCK: MIL-STD-202G, METHOD 213B COND. B
- VIBRATION: MIL-STD-202G, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202G, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202G, METHOD 107D COND. A

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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	01/29/15	
	A1	ECN # 17-0021	02/19/16	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		REV.
			PRODUCT FEATURE		
			27024821		
			APD-4-20M6G-28V		
			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27024821
			SCALE N:S		SHEET 1 OF 1