

## DESCRIPTION

PMI MODEL: APD-16-0R518-292FF IS A SIXTEEN WAY POWER DIVIDER OPERATING OVER THE 0.5 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 3.0 dB MAXIMUM BETWEEN 2.0 TO 8.0 GHz AND 5.0 dB FROM 8.0 TO 18.0 GHz. THE COMPACT 6.2" x 7.1" x 0.43" HOUSING IS OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

## SPECIFICATIONS

FREQUENCY RANGE: ----	0.5 TO 18.0 GHz	
INSERTION LOSS (OVER THEORETICAL POWER SPLIT OF 12 DB): -----	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	2.0 dB Max. 3.0 dB Max. 3.0 dB Max. 5.0 dB Max.
INSERTION LOSS FLATNESS (REF LINE OF BEST FIT): -----	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	± 1.0 dB Typ. ± 1.5 dB Typ. ± 1.0 dB Typ. ± 1.0 dB Typ.
ISOLATION: -----	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	10 dB Typ. 10 dB Typ. 20 dB Typ. 20 dB Typ.
VSWR (INPUT): -----	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	2.5:1 Typ. 3.1:1 Typ. 2.5:1 Max. 2.1:1 Max.
VSWR (OUTPUT): -----	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	1.5:1 Max. 1.5:1 Max. 1.8:1 Max. 1.8:1 Max.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	Preliminary	10/29/20	

AMPLITUDE BALANCE: --	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	± 0.5 dB Max. ± 0.5 dB Max. ± 0.5 dB Max. ± 1.0 dB Max.
PHASE BALANCE: -----	0.5 to 1 GHz 1 to 2 GHz 2 to 8 GHz 8 to 18 GHz	± 3° Typ. ± 3° Typ. ± 10° Typ. ± 20° Typ.
AVERAGE POWER: -----	25 Watts (+44dBm) (Into 1.2:1 Load VSWR)	
CONNECTORS: -----	2.92 mm FEMALE REMOVABLE	
SIZE: -----	[6.2" x 7.1 x 0.43"] EXCLUDING CONNECTORS	
FINISH: -----	PAINTED BLUE	

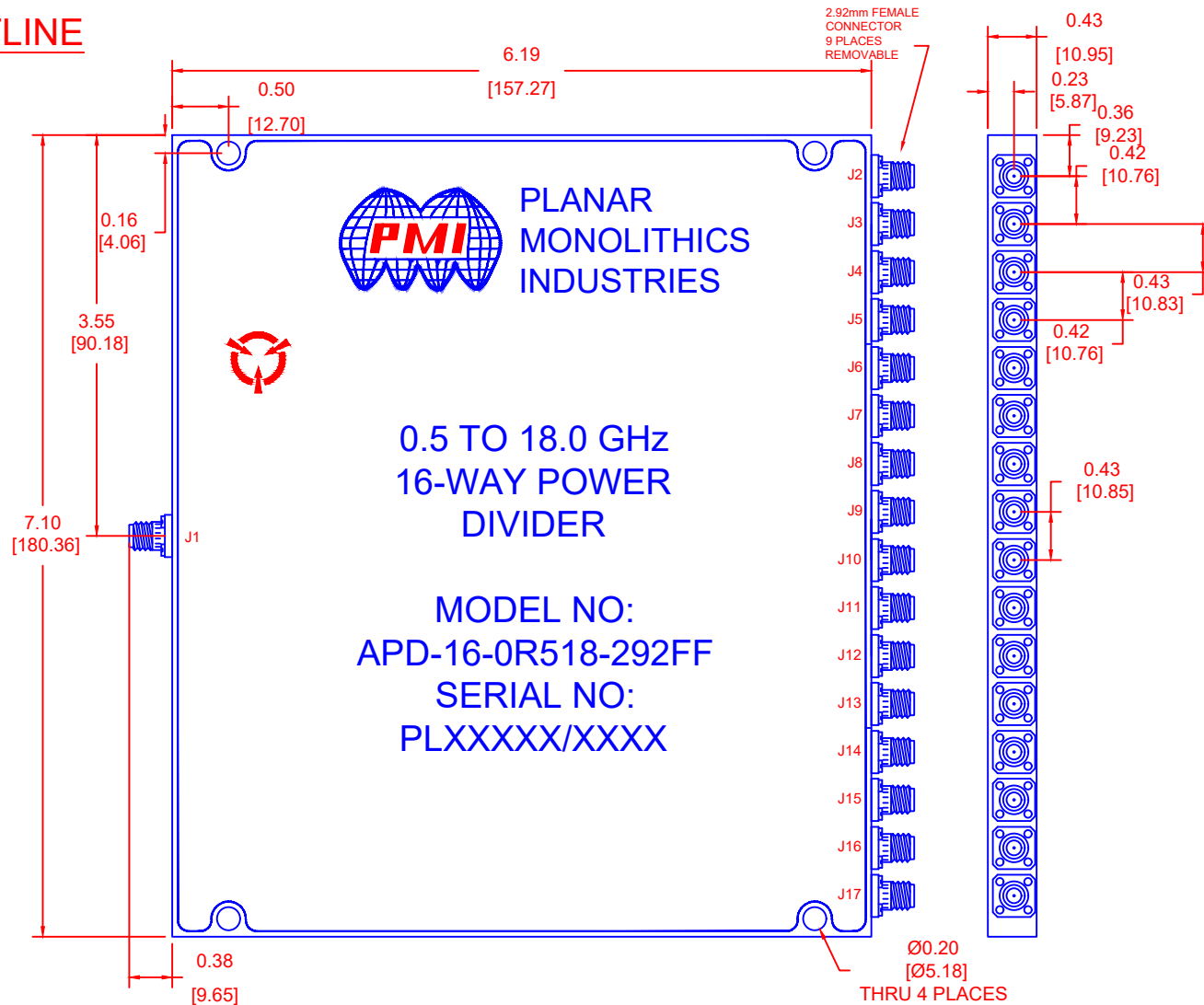
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 WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com  
 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>SMJ</i>		5/26/20	PRODUCT FEATURE APD-16-0R518-292FF 0.5 to 18.0 GHz Sixteen Way Power Divider		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	Preliminary
			SCALE	N:S	SHEET 1 OF 3

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# MECHANICAL OUTLINE



ALL DIMENSIONS  
ARE IN mm [INCH]  
TOLERANCES:  
X.XX ± 0.508 [0.020]  
X.XXX ± 0.254 [0.010]

## 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
- 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 OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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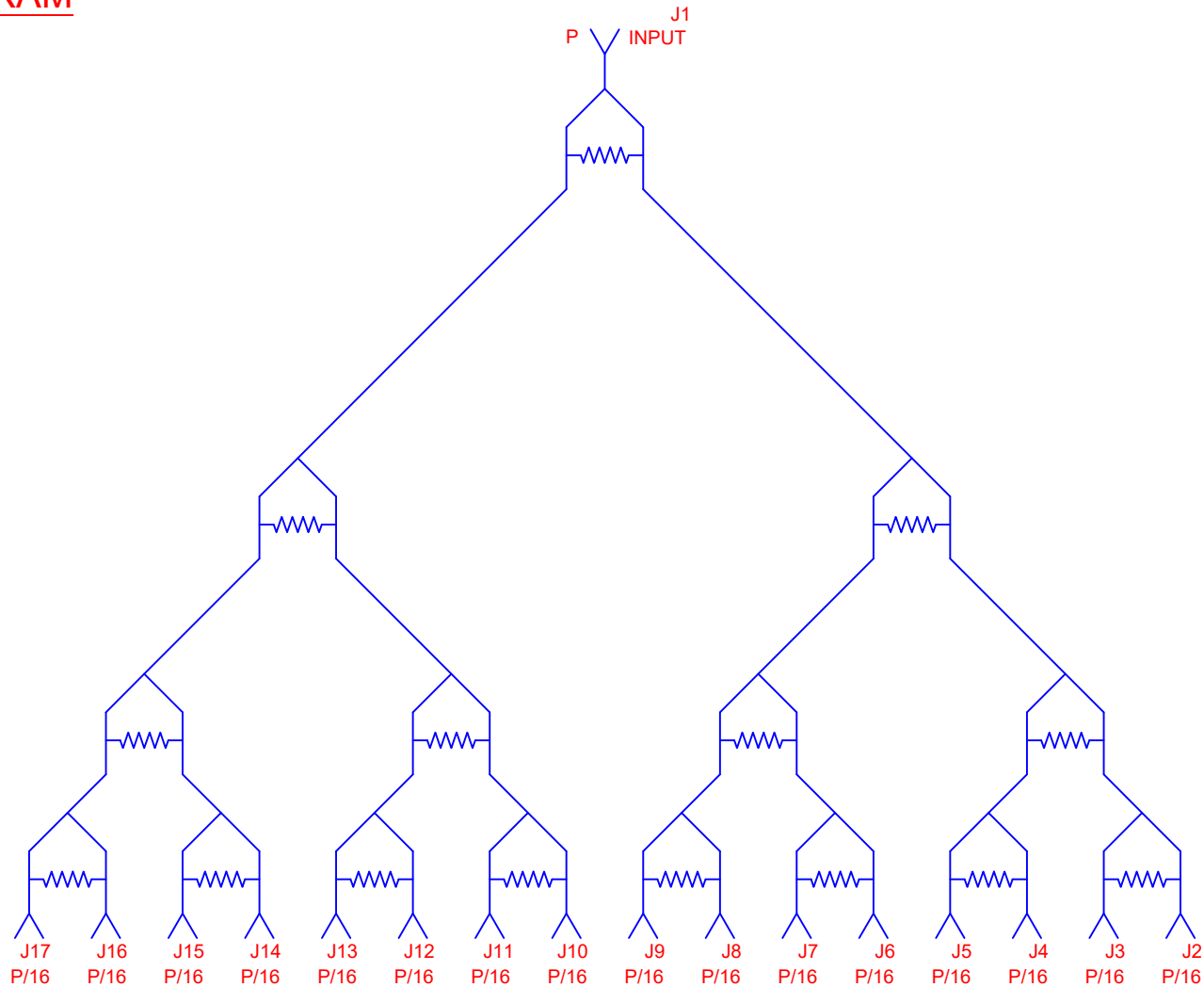
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APPROVALS		DATE	TITLE		
DRAWN <i>JMJC</i>		5/26/20	PRODUCT FEATURE APD-16-0R518-292FF 0.5 to 18.0 GHz Sixteen Way Power Divider		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	Preliminary
			SCALE	N:S	SHEET 2 OF 3
					REV. -

# BLOCK DIAGRAM



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DRAWN		5/26/20	PRODUCT FEATURE		
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ISSUED			0.5 to 18.0 GHz Sixteen Way Power Divider		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	Preliminary	-		
SCALE	N:S	SHEET	3 OF 3		