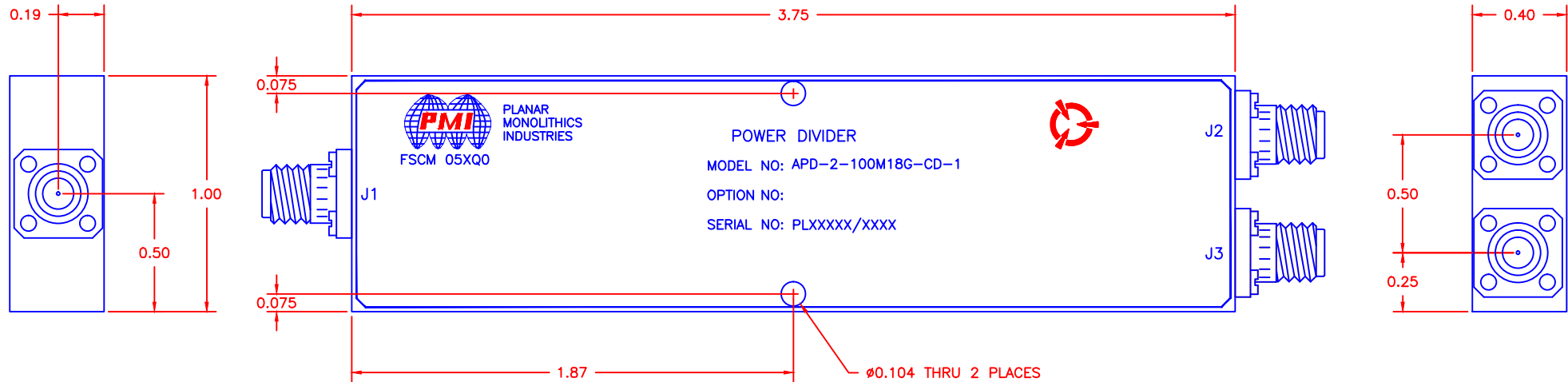


DESCRIPTION

PMI MODEL APD-2-100M18G-CD-1 IS A TWO WAY POWER DIVIDER FEATURING HIGH ISOLATION, LOW INSERTION LOSS, AND LOW VSWR. IT IS DESIGNED FOR BROADBAND USE AND HIGH RELIABILITY.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/20/13	
	A1	ECN # 14-0035	02/24/14	



SPECIFICATIONS

- FREQUENCY RANGE: 0.1 TO 18 GHz
- INSERTION LOSS: 0.1 TO 8.0 GHz, 1.85dB TYPICAL
..... 8.0 TO 18 GHz, 3.5dB TYPICAL
- VSWR: 0.1 TO 0.5 GHz, 2.0:1 TYPICAL
..... 0.5 TO 8.0 GHz, 1.5:1 TYPICAL
..... 8.0 TO 18 GHz, 1.6:1 TYPICAL
- ISOLATION: 0.1 TO 0.5 GHz, 6dB TYPICAL
..... 0.5 TO 8.0 GHz, 16.5dB TYPICAL
..... 8.0 TO 18 GHz, 21.0dB TYPICAL
- AMPLITUDE BALANCE: 0.1 TO 8.0 GHz, ± 0.2 dB TYPICAL
..... 8.0 TO 18 GHz, ± 0.45 dB TYPICAL
- PHASE BALANCE: 0.1 TO 8.0 GHz, $\pm 4^\circ$ TYPICAL
..... 8.0 TO 18 GHz, $\pm 5^\circ$ TYPICAL
- AVERAGE POWER INTO LOAD VSWR:
1.2:1 25 WATTS
2.0:1 7.5 WATTS
 ∞ :1 0.75 WATTS
- SIZE: 3.75" (L) x 1.00" (W) x 0.40" (H)
- FINISH: GOLD PLATED

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 ± 0.020
X.XXX ± 0.010

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
..... -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



		TITLE			
APPROVALS		PRODUCT FEATURE			
DATE		APD-2-100M18G-CD-1			
DRAWN <i>jgs</i>		0.1 - 18 GHz 2 WAY POWER DIVIDER			
CHECKED		SIZE	FSCM NO.	DWG NO.	REV.
		A	05XQ0	27021531	A
ISSUED		SCALE	N:S		SHEET 1 OF 3

PMI MODEL APD-2-100M18G-CD-1 IS A TWO WAY POWER DIVIDER FEATURING HIGH ISOLATION, LOW INSERTION LOSS, AND LOW VSWR. IT IS DESIGNED FOR BROADBAND USE AND HIGH RELIABILITY.

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Technical drawing of the APD-2-100M18G-CD-1 Power Divider, showing front, side, and detail views with dimensions and labels.

Front View Dimensions:

- Overall Width: 3.75
- Overall Height: 1.00
- Top Flange Width: 0.19
- Bottom Flange Width: 0.19
- Top Flange Thickness: 0.075
- Bottom Flange Thickness: 0.075
- Internal Width (to center of J1): 1.87

Labels on Front View:

- PMI PLANAR MONOLITHICS INDUSTRIES
- FSCM 05XQ0
- POWER DIVIDER
- MODEL NO: APD-2-100M18G-CD-1
- OPTION NO:
- SERIAL NO: PLXXXXX/XXXX
- Recycling symbol
- Port J1 (left)
- Port J2 (top right)
- Port J3 (bottom right)

Side View Dimensions:

- Overall Depth: 0.40
- Top Port Depth: 0.50
- Bottom Port Depth: 0.25

Detail View Dimensions:

- Port J1: 0.50 (width), 0.19 (depth)
- Port J2: 0.40 (width), 0.50 (depth)
- Port J3: 0.40 (width), 0.25 (depth)

Notes:

- Ø0.104 THRU 2 PLACES

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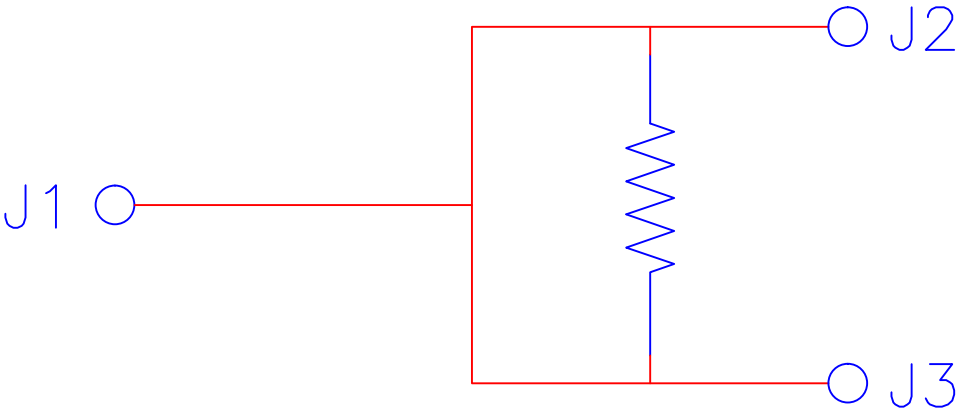
		TITLE PRODUCT FEATURE APD-2-100M18G-CD-1 0.1 - 18 GHz 2 WAY POWER DIVIDER			
APPROVALS	DATE				
DRAWN <i>jgo</i>	11/20/13				
CHECKED		SIZE A	FSCM NO. 05XQ0	DWG NO. 27021531	REV. A
ISSUED		SCALE N:S			SHEET 2 OF 3

DESCRIPTION

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REVISIONS				
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FUNCTIONAL BLOCK DIAGRAM



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X.XX ±0.020
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APPROVALS		DATE	TITLE				REV.
DRAWN		jgs	PRODUCT FEATURE				
CHECKED			APD-2-100M18G-CD-1				
ISSUED			0.1 - 18 GHz 2 WAY POWER DIVIDER				
SIZE	FSCM NO.	DWG NO.					
A	05XQ0	27021531					A1
SCALE N:S				SHEET		3 OF 3	