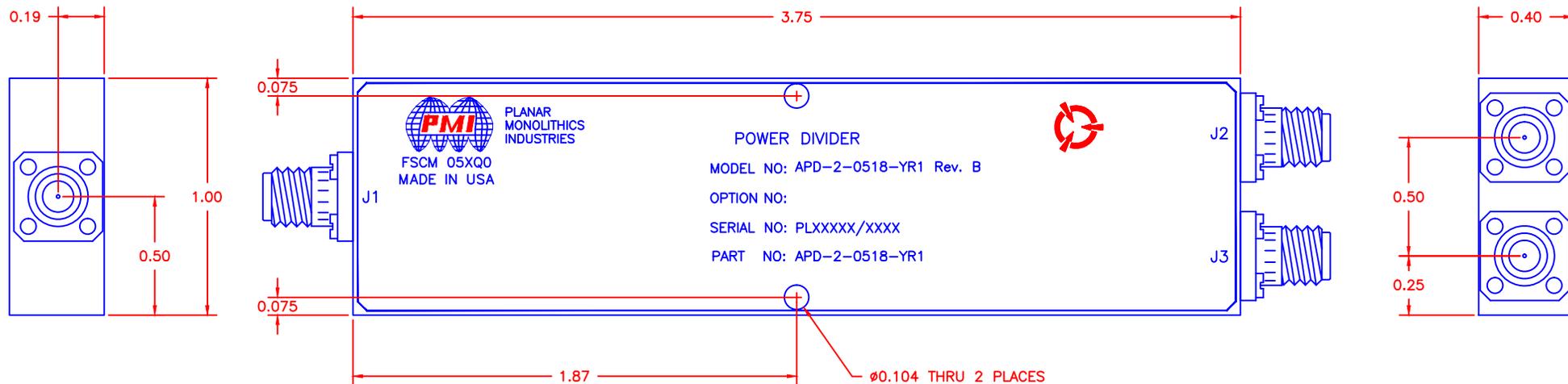


## DESCRIPTION

PMI MODEL APD-2-0518-YR1 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
	A1	ORIGINAL RELEASE	2/27/09	
	B1	UPDATED SPECS	08/06/12	
	B2	ECN # 14-0039	02/28/14	



## SPECIFICATIONS

- FREQUENCY RANGE: ..... 0.5 TO 18 GHz
- INSERTION LOSS: ..... 0.5 TO 8.0 GHz, 1.85dB TYPICAL  
..... 8.0 TO 18 GHz, 3.5dB TYPICAL
- VSWR: ..... 0.5 TO 8.0 GHz, 1.5:1 TYPICAL  
..... 8.0 TO 18 GHz, 1.6:1 TYPICAL
- ISOLATION: ..... 0.5 TO 8.0 GHz, 16.5dB TYPICAL  
..... 8.0 TO 18 GHz, 21.0dB TYPICAL
- AMPLITUDE BALANCE: ..... 0.5 TO 8.0 GHz, ±0.2dB TYPICAL  
..... 8.0 TO 18 GHz, ±0.45dB TYPICAL
- PHASE BALANCE: ..... 0.5 TO 8.0 GHz, ±4° TYPICAL  
..... 8.0 TO 18 GHz, ±5° 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

## 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](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>JCM</i>		4/5/05	PRODUCT FEATURE APD-2-0518-YR1 0.5 - 18 GHz 2 WAY POWER DIVIDER			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27010304-B	B2
			SCALE	N:S	SHEET	1 OF 1

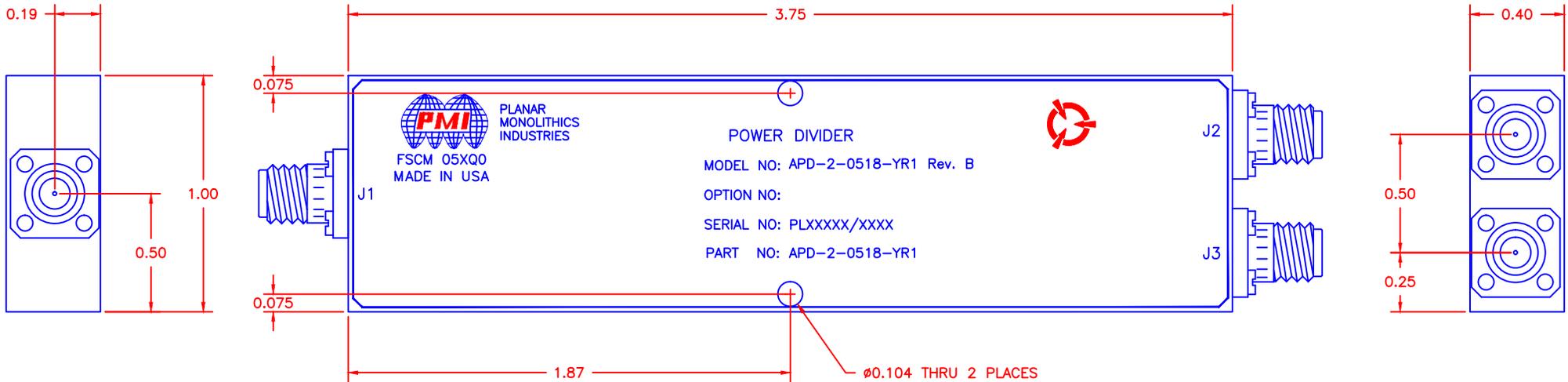
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

## DESCRIPTION

PMI MODEL APD-2-0518-YR1 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
	A1	ORIGINAL RELEASE	2/27/09	
	B1	UPDATED SPECS	08/06/12	
	B2	ECN # 14-0039	02/28/14	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-662-3819 FAX: 301-662-1731  
 WEBSITE: [www.planarmonolithicsindustries.com](http://www.planarmonolithicsindustries.com)  
 E-MAIL: [sales@planarmonolithics.com](mailto:sales@planarmonolithics.com)  
 ISO 9001 CERTIFIED



ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 X.XX ±0.020  
 X.XXX ±0.010

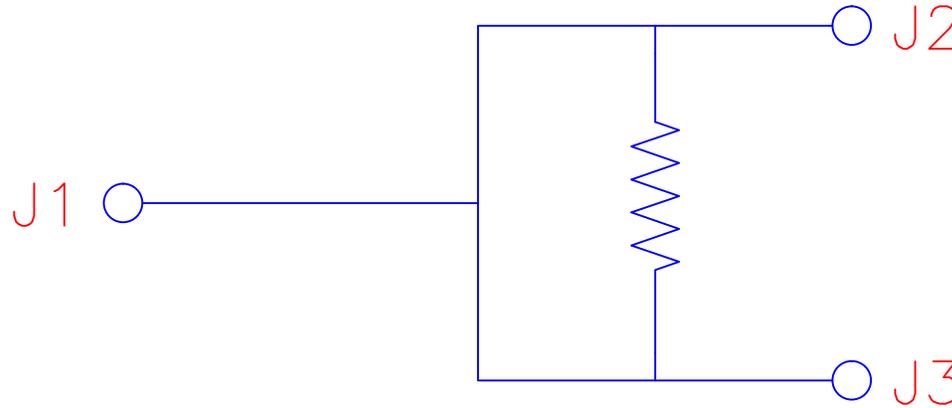
APPROVALS		DATE	TITLE		
DRAWN <i>JKM</i>		4/5/05	MECHANICAL OUTLINE APD-2-0518-YR1 0.5 - 18 GHz 2 WAY POWER DIVIDER		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	27010304-B
			SCALE	N:S	SHEET 2 OF 3
					REV. B2

**DESCRIPTION**

PMI MODEL APD-2-0518-YR1 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
	A1	ORIGINAL RELEASE	2/27/09	
	B1	UPDATED SPECS	08/06/12	
	B2	ECN # 14-0039	02/28/14	

**FUNCTIONAL BLOCK DIAGRAM**



PMI CONFIDENTIAL AND PROPRIETARY

**PLANAR MONOLITHICS INDUSTRIES, INC.**

7311-F GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-662-3819 FAX: 301-662-1731  
 WEBSITE: [www.planarmonolithicsindustries.com](http://www.planarmonolithicsindustries.com)  
 E-MAIL: [sales@planarmonolithics.com](mailto:sales@planarmonolithics.com)  
 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN		4/5/05	FUNCTIONAL BLOCK DIAGRAM		
CHECKED			APD-2-0518-YR1		
ISSUED			0.5 - 18 GHz 2 WAY POWER DIVIDER		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27010304-B	B2		
SCALE N:S			SHEET	3 OF 3	