ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/19/2021	
	B1	ECN#21-0119	7/29/21	
	C1	ECN#25-0310	12/16/2025	

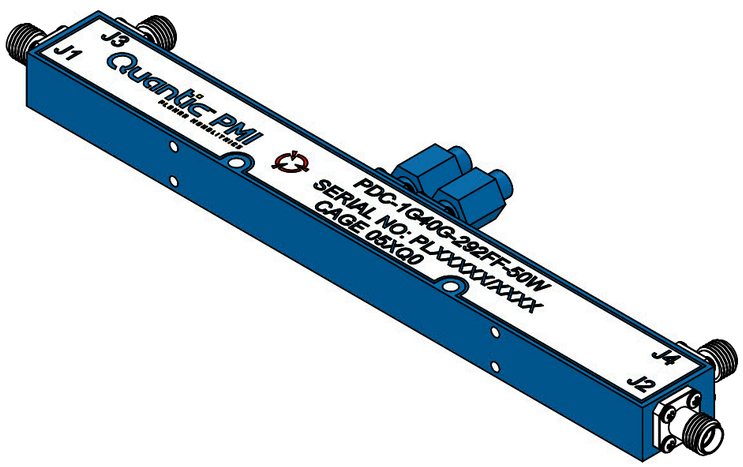
DESCRIPTION:

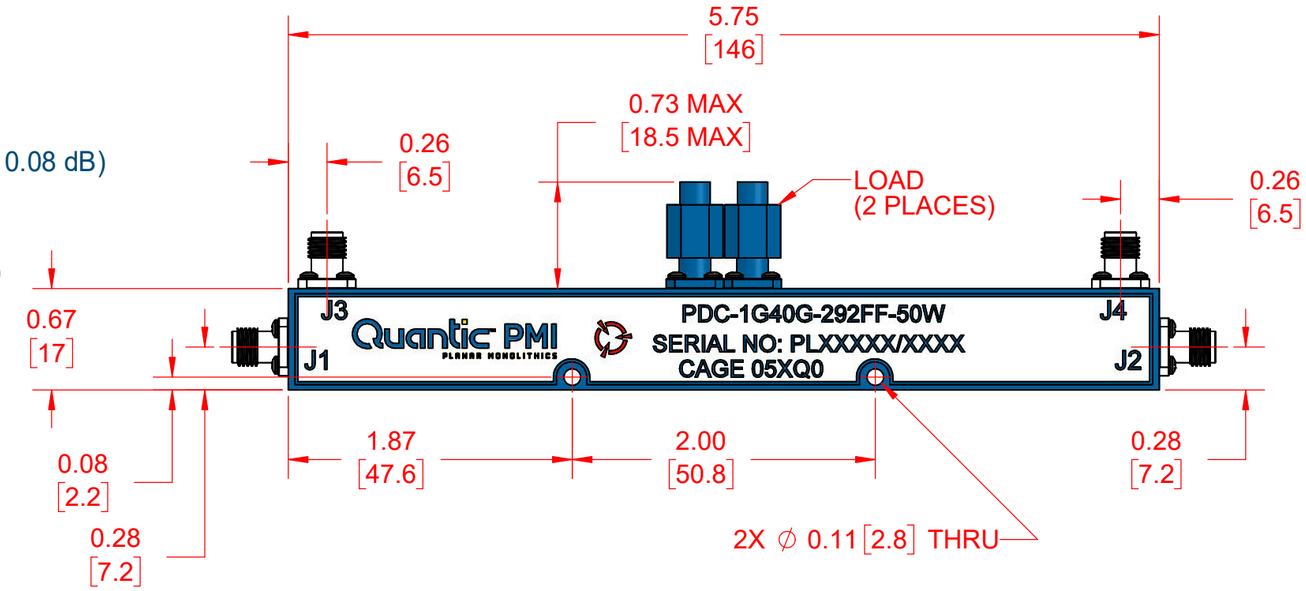
PMI MODEL NO. PDC-1G40G-292FF-50W IS A 1.0 GHz TO 40.0 GHz DUAL DIRECTIONAL COUPLER.

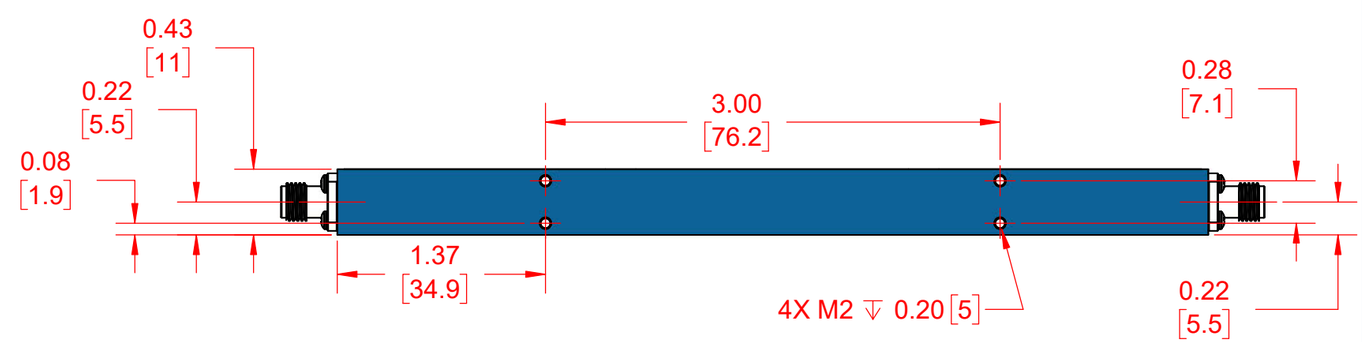
PORT	PORT FUNCTION
J1/J2	IN/OUT
J3/J4	-20 dB

SPECIFICATIONS:

- FREQUENCY RANGE:..... 1.0 GHz TO 40.0 GHz
- NOMINAL COUPLING:..... 20 dB
- FREQUENCY SENSITIVITY:.....±1.2 dB MAXIMUM
- DIRECTIVITY:..... 10 dB MINIMUM
- INSERTION LOSS:..... 2.8 dB MAXIMUM
  (EXCLUDING COUPLING LOSS 0.08 dB)
- VSWR PRIMARY:.....1.70:1 MAXIMUM
- VSWR SECONDARY:.....1.70:1 MAXIMUM
- POWER HANDLING:..... 50 WATT (FORWARD POWER)
- CONNECTORS:..... 2.92 mm FEMALE
- FINISH:..... PAINTED BLUE







ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +70°C (OPERATING)
  -55°C TO +85°C (STORAGE)
- ALTITUDE:.....60,000 FT 1.0 psi MIN
- HUMIDITY:.....95% RH @ 40°C
- SHOCK:..... 20 G FOR 11 msec HALF SINE WAVE, 3 AXIS
  BOTH DIRECTIONS

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN EMF	8/4/2017
REDRAWN	
ISSUED	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± 0.02 .XXX ± 0.01 ANGLES ±

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ISO 9001 CERTIFIED

TITLE	OUTLINE PDC-1G40G-292FF-50W		
SIZE B	FSCM NO. 05XQ0	DWG NO. 27041140	REV. C1
SCALE 1:1			SHEET 1 OF 1