

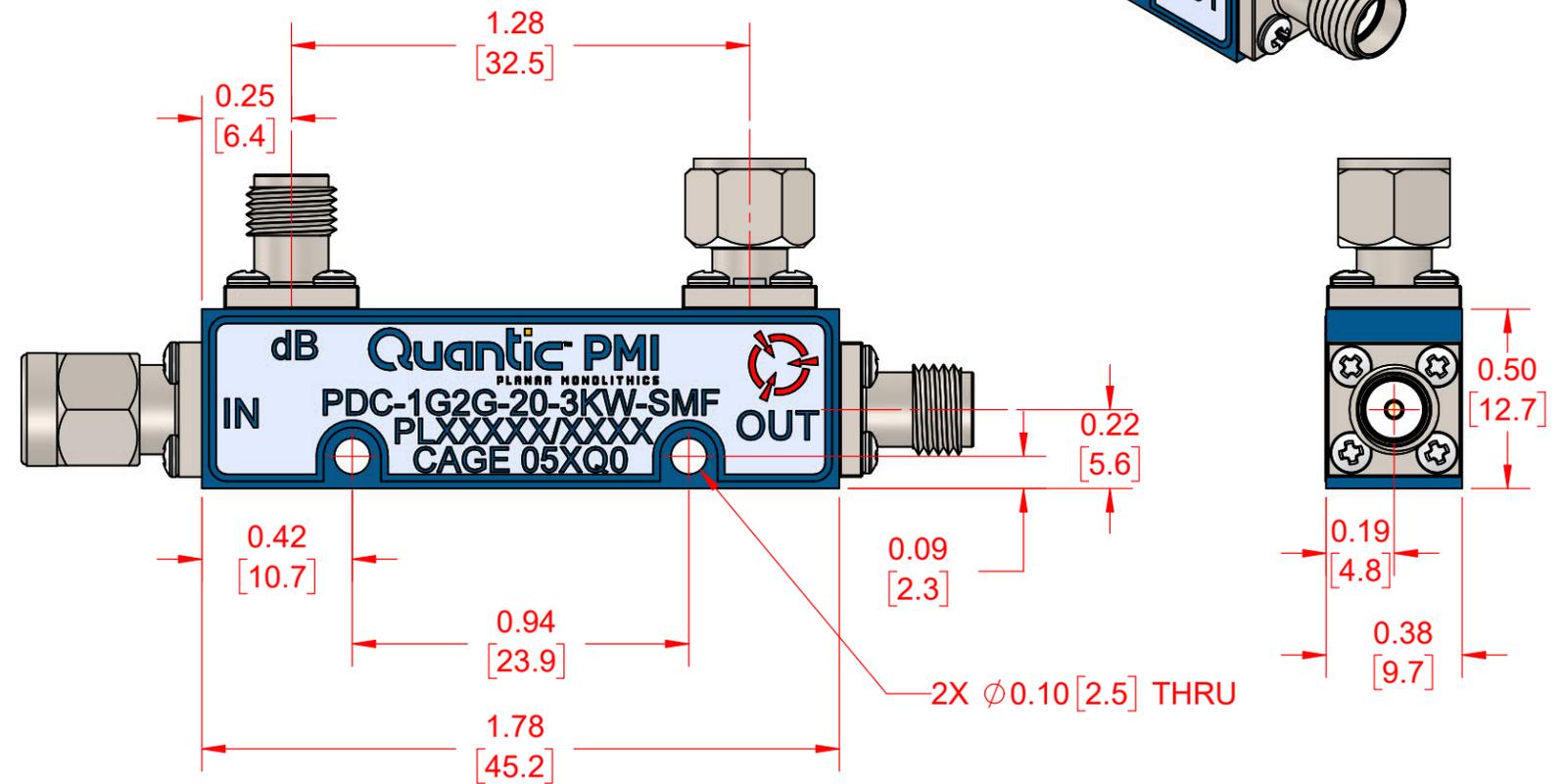
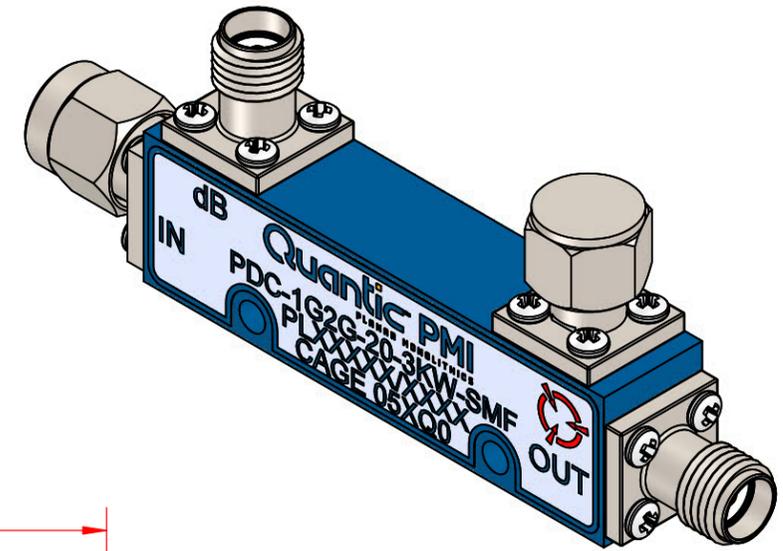
DESCRIPTION:

PMI MODEL NO. PDC-1G2G-20-3KW-SMF IS A 1GHZ TO 2 GHz DIRECTIONAL COUPLER. IT HAS A MINIMUM DIRECTIVITY OF 25 dB, AND A MAXIMUM INSERTION LOSS OF 0.2 dB. IT IS OUTFITTED WITH AN SMA MALE CONNECTOR FOR THE INPUT PORT, AND SMA FEMALE CONNECTORS FOR THE OUTPUT PORT AND COUPLED PORT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/21/2025	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 1.0 TO 2.0 GHz
- COUPLING INCLUDING FREQUENCY SENSITIVITY:.. 20±1.25 dB
- DIRECTIVITY:..... 25 dB MINIMUM
- INSERTION LOSS:..... 0.2 dB MAXIMUM
(THEORETICAL COUPLING LOSS OF 0.044 REMOVED FROM INSERTION LOSS)
- VSWR (PRIMARY LINE):..... 1.15:1 MAXIMUM
- VSWR (SECONDARY LINE):..... 1.15:1 MAXIMUM
- POWER INPUT:..... AVERAGE: 50 W
PEAK: 3 kW MAXIMUM
1 μsec PULSE WIDTH
0.1% DUTY CYCLE
AVERAGE REF: 50 W
- CONNECTORS:..... INPUT: SMA MALE
OUTPUT: SMA FEMALE
COUPLED PORT: SMA FEMALE
- SIZE:..... 1.78" X 0.5" X 0.38"
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... 0°C TO +65°C (OPERATING)
-40°C TO +70°C (STORAGE)
- HUMIDITY:..... UP TO 95% CONDENSATION
- SHOCK:..... 50 G'S PEAK HALF-SINEWAVE
6 mSEC DURATION
VELOCITY CHANGE OF 9.2 FT PER SEC
- VIBRATION:..... 4-15 Hz @ 0.110 ± 0.006 in. AMPLITUDE (1.26 G's PEAK)*
16-33 Hz @ 0.080 ± 0.004 in. AMPLITUDE (4.4 G's PEAK)*
34-40 Hz @ 0.005 ± 0.001 in. AMPLITUDE (0.8 G's PEAK)*
41-50 Hz @ 0.003 +0.000/-0.001 in. AMPLITUDE (0.75 G's PEAK)*
*IN THREE MUTUALLY PERPENDICULAR DIRECTIONS
OVER A MINIMUM OF TWO HOURS

PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS DATE DRAWN VP REDRAWN ISSUED		DATE 7/21/2025		TITLE OUTLINE PDC-1G2G-20-3KW-SMF	
		SIZE B	FSCM NO. 05XQ0		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS .XX ± 0.02 DECIMALS .XXX ± 0.01 ANGLES ±				SCALE 2:1	
				SHEET 1 OF 1	

Quantic PMI
PLANNED MONOLITHICS

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