

DESCRIPTION

PMI MODEL NO. PDC-2G18G-20C-SFF-50W IS A DIRECTIONAL COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 2.0 TO 18.0 GHz. IT HAS A COUPLING FACTOR OF 20 ± 0.7 dB MAXIMUM AND COUPLING SENSITIVITY OF ± 0.7 dB MAXIMUM. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 2.0 TO 18.0 GHz
- INSERTION LOSS: ----- 0.7 dB MAXIMUM (EXCLUDING COUPLING LOSS 0.04 dB)
- COUPLING FACTOR: ----- 20 ± 0.7 dB MAXIMUM
- COUPLING SENSITIVITY: ----- ± 0.7 dB MAXIMUM OVER FREQUENCY
- DIRECTIVITY: ----- 15 dB MINIMUM
- VSWR: ----- PRIMARY: 1.40:1 MAXIMUM* SECONDARY: 1.40:1 MAXIMUM*
- POWER HANDLING: ----- INCIDENT: 50 WATTS MAXIMUM REFLECTED: 2 WATTS MAXIMUM
- IMPEDANCE: ----- 50 OHMS
- CONNECTORS: ----- SMA FEMALE
- FINISH: ----- PAINTED BLUE

*GUARANTEED WHEN LOAD VSWR IS 1.5:1 MAXIMUM

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- UP TO 95%, NON-CONDENSING (OPERATING)
- 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

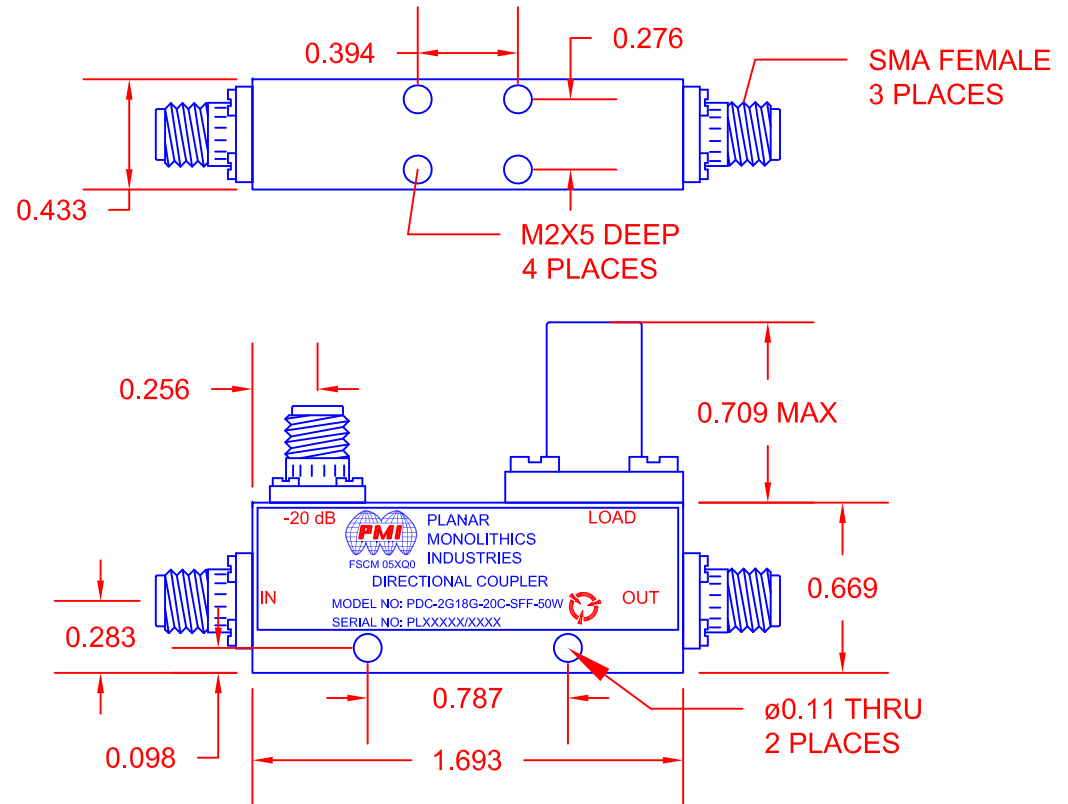
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/18/2020	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	<i>EW</i>	1/7/19	PRODUCT FEATURE			
REDRAWN	<i>SMH</i>	09/18/20	PDC-2G18G-20C-SFF-50W			
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	05XQ0	27038200	A1
			SCALE	N:S	SHEET	1 OF 1