### **DESCRIPTION**

PMI MODEL NO. QC-12-180-NFF IS A HYBRID COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 1.0 TO 2.0 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 0.4 dB AND A MINIMUM ISOLATION OF 18 dB.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/20/2023	

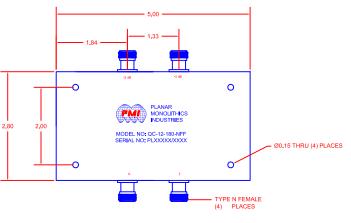
# **MECHANICAL OUTLINE**

### **SPECIFICATIONS**

- FREQUENCY RANGE: ----- 1.0 TO 2.0 GHz
- NOMINAL SPLIT: ----- 3.01 dB
- INSERTION LOSS: ----- 0.4 dB MAX
- ISOLATION: \_\_\_\_\_ 18 dB MIN
- AMPLITUDE BALANCE: ---- ±0.6 dB MAX
- PHASE BALANCE: ----- ±6° MAX
- ----- 1.40:1 MAX
- POWER HANDLING: ----- AVERAGE: 300 WATTS MAX

PEAK: 1 kW MAX

- IMPEDANCE: ----- 50 OHMS
- CONNECTORS: ----- N-FEMALE
- FINISH: ----- PAINTED BLUE





### **ENVIRONMENTAL RATINGS**

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
  - -65 °C TO +125 °C (STORAGE)
- OPERATING HUMIDITY; ------ UP TO 95%, NON-CONDENSING
- SHOCK: ----- MIL-STD-202, METHOD 213B COND, B
- VIBRATION; ----- MIL-STD-202, METHOD 204D COND, B
- ...... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE; ------------ MIL-STD-202, METHOD 107D COND, A

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

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

**PMI CONFIDENTIAL AND PROPRIETARY** 

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SCALE N:S