

DESCRIPTION

PMI MODEL: QC-1G18G IS A QUADRATURE HYBRID COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 1.0 GHz TO 18.0 GHz. THIS MODEL PROVIDES LOW LOSS OF 2 dB AND AN ISOLATION OF 16 dB MINIMUM. THE VSWR IS 1.60:1 MAXIMUM WITH AN AMPLITUDE BALANCE OF ± 0.9 dB MAXIMUM AND A PHASE BALANCE OF $\pm 8^\circ$ MAXIMUM. THIS COUPLER IS OUTFITTED WITH N-TYPE FEMALE CONNECTORS.

SPECIFICATIONS

- * FREQUENCY RANGE: 1.0 GHz TO 18.0 GHz
- * ISOLATION: 16 dB MINIMUM
- * VSWR: 1.60:1 MAXIMUM
- * COUPLING: 3 dB
- * INSERTION LOSS: 2 dB MAXIMUM
- * INPUT POWER: 300 W CW AVERAGE, 3 kW PEAK
- * AMPLITUDE BALANCE: ± 0.9 dB MAXIMUM
- * PHASE BALANCE: $\pm 8^\circ$ MAXIMUM
- * CONNECTORS: N-TYPE FEMALE
- * SIZE: 5.67" x 1.60" x 1.25"

ENVIRONMENTAL RATINGS

- * TEMPERATURE: -45 °C TO +75 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- * HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- * 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

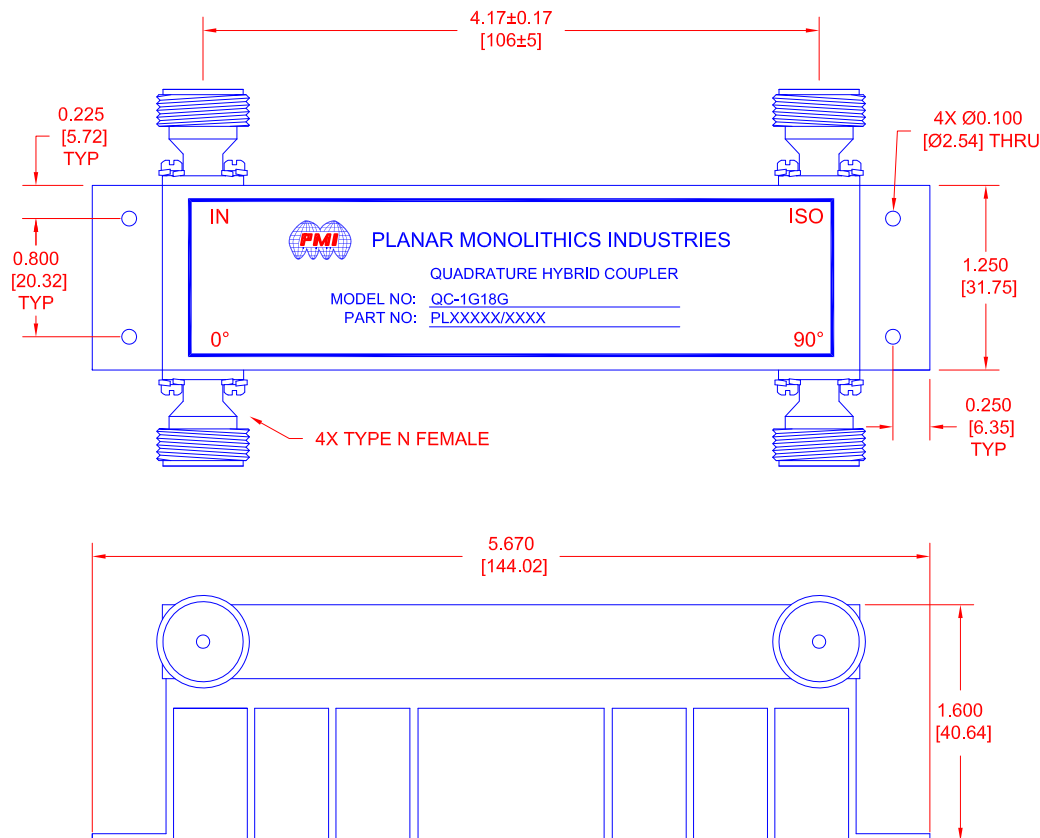
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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
	-	PRELIMINARY	12/22/15	JSP

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		M. Berry		12/22/15	
CHECKED					
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	