DESCRIPTION

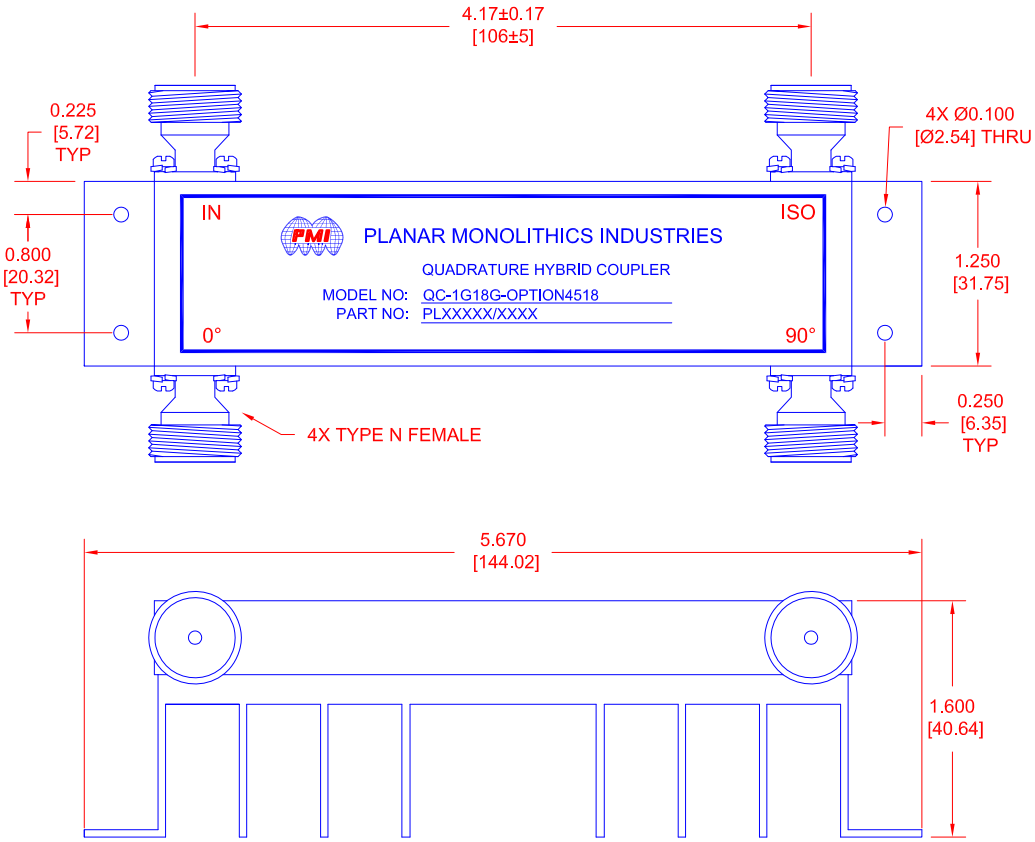
PMI MODEL: QC-1G18G-OPTION4518 IS A QUADRATURE HYBRID COUPLER THAT IS OPTIMIZED TO OPERATE OVER THE FREQUENCY RANGE OF 4.5 GHz TO 18.0 GHz. THIS MODEL PROVIDES LOW LOSS OF 2 dB AND AN ISOLATION OF 16 dB MINIMUM. THE VSWR IS 1.60:1 MAXIMUM WITH AN AMPLITUDE BALANCE OF ±0.9 dB MAXIMUM AND A PHASE BALANCE OF ±8° MAXIMUM. THIS COUPLER IS OUTFITTED WITH N-TYPE FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/22/15	SP

SPECIFICATIONS

- ★ FREQUENCY RANGE: ---------- 4.5 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: ---------- ±8° MAXIMUM
- ★ CONNECTORS: ---------- N-TYPE FEMALE
- ★ SIZE: ---------- 5.67" x 1.60" x 1.25"

MECHANICAL OUTLINE



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

ALL DIMENSIONS ARE IN INCHES (mm)
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN M. Berry	12/22/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
QC-1G18G-OPTION4518

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	-

SCALE N:S SHEET 1 OF 1