

DESCRIPTION:

PMI MODEL NUMBER BPM-1840-180-292FF IS A BI-PHASE MODULATOR OPERATING OVER THE 18 TO 40 GHz FREQUENCY RANGE. THIS MODEL OFFERS INSERTION LOSS OF 8 dB TYPICAL WHILE MAINTAINING A MAXIMUM AMPLITUDE BALANCE OF ±4.0 dB. THIS COMPACT HOUSING MEASURES 1.0" x 1.0" x 0.5" AND IS OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

SPECIFICATIONS:

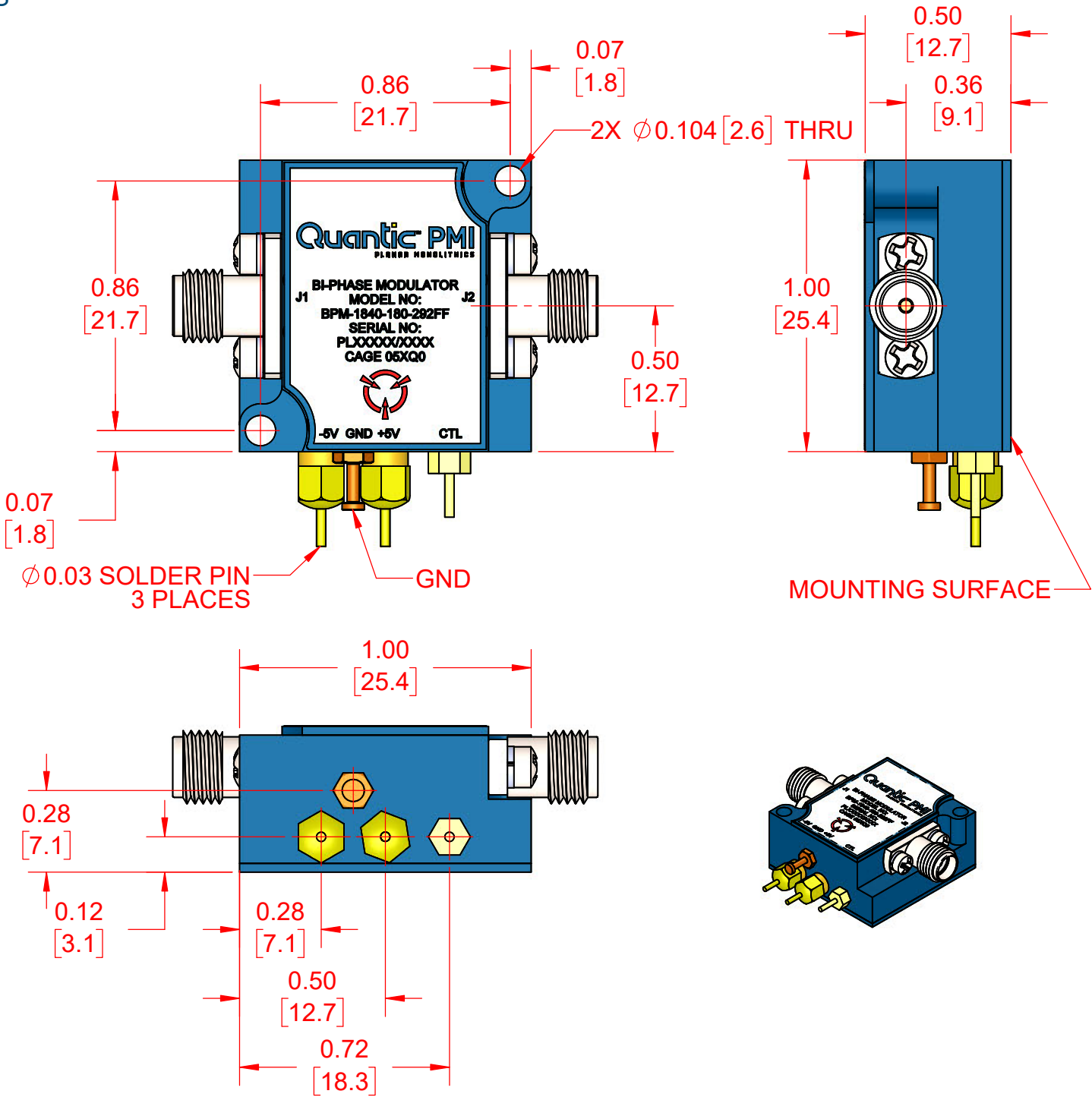
- FREQUENCY RANGE:..... 18 TO 40 GHz
- INSERTION LOSS:..... 8 dB TYP
- VSWR:..... 2.0:1 GOAL, 3.0:1 MAX
- SWITCHING SPEED:..... 100 ns MAX
- PHASE VARIATION:..... ±40° TYP
- AMPLITUDE BALANCE:..... ±4.0 dB TYP
- PHASE SHIFT CONTROL INPUT:..... TTL "0" = 0°
TTL "1" = 180°
- POWER HANDLING:..... 20 dBm OPERATIONAL
- IMPEDANCE:..... 50 Ω
- DC SUPPLY:..... +5 VDC @ 75 mA MAX
-5 VDC @ 20 mA MAX
- CONNECTORS:..... 2.92 mm FEMALE
- SIZE:..... 1.0" x 1.0" x 0.5"
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... UP TO 90%, NON-CONDENSING
- 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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/16/2019	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
DRAWN	GJR	10/16/2019	TITLE			
REDRAWN	J ESCANO	3/6/2025	OUTLINE			
ISSUED			BPM-1840-180-292FF			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			SIZE	FSCM NO.	DWG NO.	REV.
FRACTIONS			B	05XQ0	27037560	A1
DECIMALS						
ANGLES						
.XX ± 0.02						
.XXX ± 0.01						
SCALE 2:1			SHEET 1 OF 1			