

DESCRIPTION

PMI MODEL NUMBER: BPM-6G18G-180-F193B IS A HIGH SPEED BI-PHASE MODULATOR, OPERATING OVER THE 6-18GHz FREQUENCY RANGE. THIS MODEL IS A DOUBLE-BALANCED DESIGN ALLOWING IT TO ACHIEVE 20 dB CARRIER SUPPRESSION. THIS MODEL ALSO FEATURES A TTL CONTROL, AND 1 WATT POWER HANDLING WITHOUT PERFORMANCE DEGRADATION.

SPECIFICATIONS

- FREQUENCY RANGE: -6 TO 18 GHz
- INSERTION LOSS: -3.5dB TYP
- INSERTION LOSS CHANGE VS PHASE: -1.0dB TYP
- DIFFERENTIAL PHASE SHIFT -180° ±10° TYP
- VSWR: -2.0:1 TYP
- RISE/FALL TIME: -5ns MAX
- SWITCHING TIME: -20ns MAX
- MODULATION RATE: -10 MHz MAX
- CARRIER SUPPRESSION: -20 dB TYP
- INPUT POWER: -+30dBm CW MAX OR PEAK (WITHOUT PERFORMANCE DEGRADATION)
2W AVERAGE,
25W PEAK, 1us PW,
- DC SUPPLY: -+5VDC @ 65mA
-12VDC to -15VDC @ 20mA
- SIZE: -(L) 1.3" X (W) 1.3" (H) 0.5"
- FINISH: -BLUE PAINT

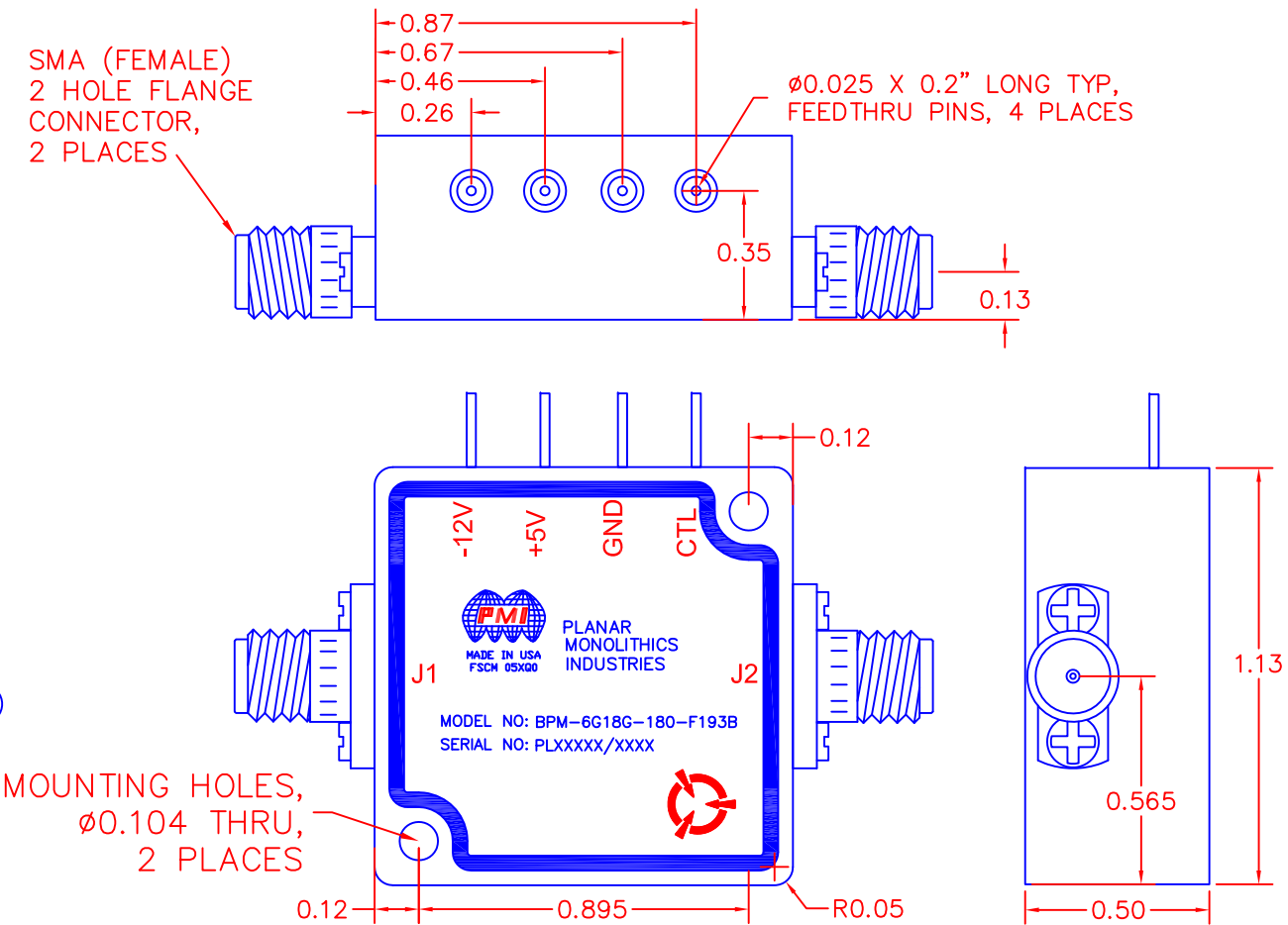
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +110°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: -MIL-STD-202F, METHOD 103B COND. B
- SHOCK: -MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: -MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: -MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: -MIL-STD-202F, METHOD 107 COND.A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY RELEASE	05/30/14	

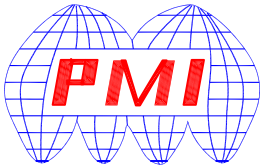
MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



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

APPROVALS		DATE		TITLE			
DRAWN		5/30/14		PRODUCT FEATURE			
CHECKED				BPM-6G18G-180-F193B			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	270XXXXX	—
				SCALE	N: S	SHEET	1 OF 1