

DESCRIPTION:

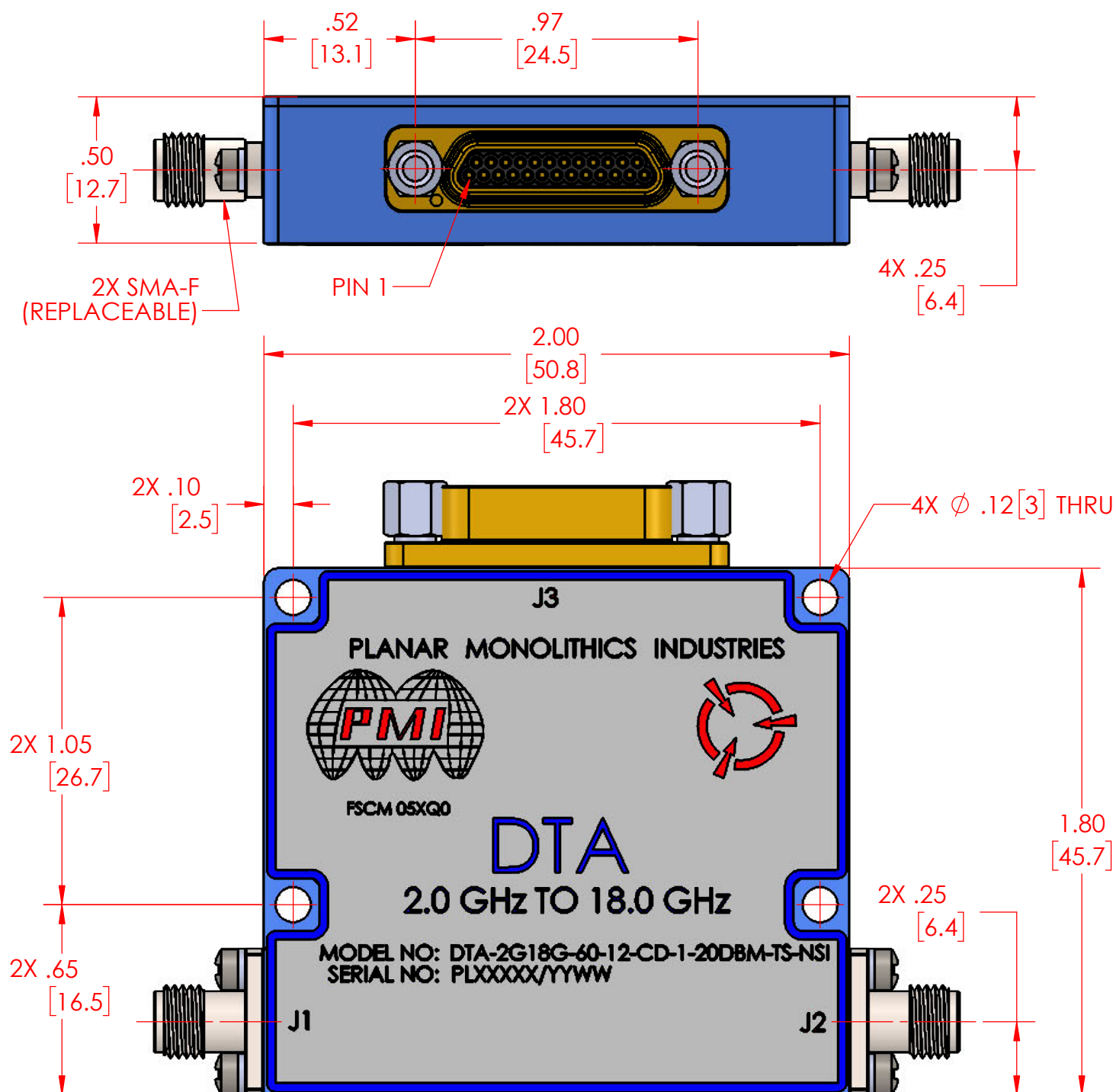
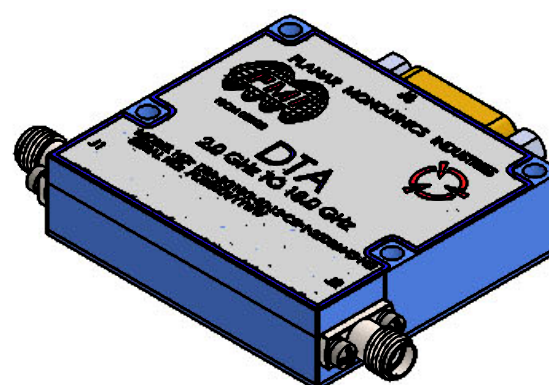
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER DTA-2G18G-60-12-CD-1-20DBM-TS-NSI IS A 12 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR OVER THE FREQUENCY RANGE OF 2.0 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" IN HEIGHT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/28/2020	
	A2	ECN # 24-0063	3/11/2024	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE:..... 60 dB
- INSERTION LOSS:..... 4.8 dB MAXIMUM
- VSWR:..... 2.0 : 1 MAXIMUM
- FLATNESS UP TO:
 - 20 dB:..... ± 1.0 dB TYPICAL
 - 40 dB:..... ± 1.25 dB TYPICAL
 - 60 dB:..... ± 3.0 dB TYPICAL
- ACCURACY OF ATTENUATION:
 - 20 dB:..... ± 1.0 dB TYPICAL
 - 40 dB:..... ± 1.5 dB TYPICAL
 - 60 dB:..... ± 2.0 dB TYPICAL
- MINIMUM ATTENUATION STEP:..... 0.016 dB
- OPERATING POWER:..... +20 dBm TYPICAL
- SURVIVAL POWER:..... 1W AVERAGE FROM -65°C TO +25°C
- SWITCHING TIME:
 - ON TIME:..... 1.0 us MAXIMUM
 - OFF TIME:..... 0.5 us MAXIMUM
- DC POWER SUPPLY:..... +15V @ 150 mA MAXIMUM
- CONNECTORS:..... 2 SMA & 25 PIN MICRO-D FEMALE
- WEIGHT:..... 3.0 oz (85 gm) APPROXIMATE
- FINISH:..... PAINTED BLUE
- LOGIC INPUT:
 - LOGIC "0" (BIT OFF):..... -03 TO +0.8V
 - LOGIC "1" (BIT ON):..... +2.0 TO +5.0V
- TEMP SENSOR:..... 10 mV/°C, 3.0V @ 25°C

PIN NO.	J3 FUNCTION
1	2 dB
2	1 dB
3	0.5 dB
4	0.25 dB
5	GND
6	0.13 dB
7	0.06 dB
8	GND
9	NC
10	NC
11	+VDC
12	32 dB (MSB)
13	16 dB
14	8 dB
15	4 dB
16	0.03 dB
17	0.016 dB (LSB)
18	NC
19	NC
20	NC
21	NC
22	NC
23	NC
24	TEMP SENSOR
25	TEMP SENSOR RTN



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202G, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202G, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202G, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202G, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202G, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN EIM REDRAWN ISSUED		DATE 11/12/20	TITLE OUTLINE DTA-2G18G-60-12-CD-1-20DBM-TS-NSI-NSI		REV. A2
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		SIZE B	FSCM NO. 05XQ0	DWG NO. 27040140	SCALE 2:1 SHEET 1 OF 1

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