

DESCRIPTION:

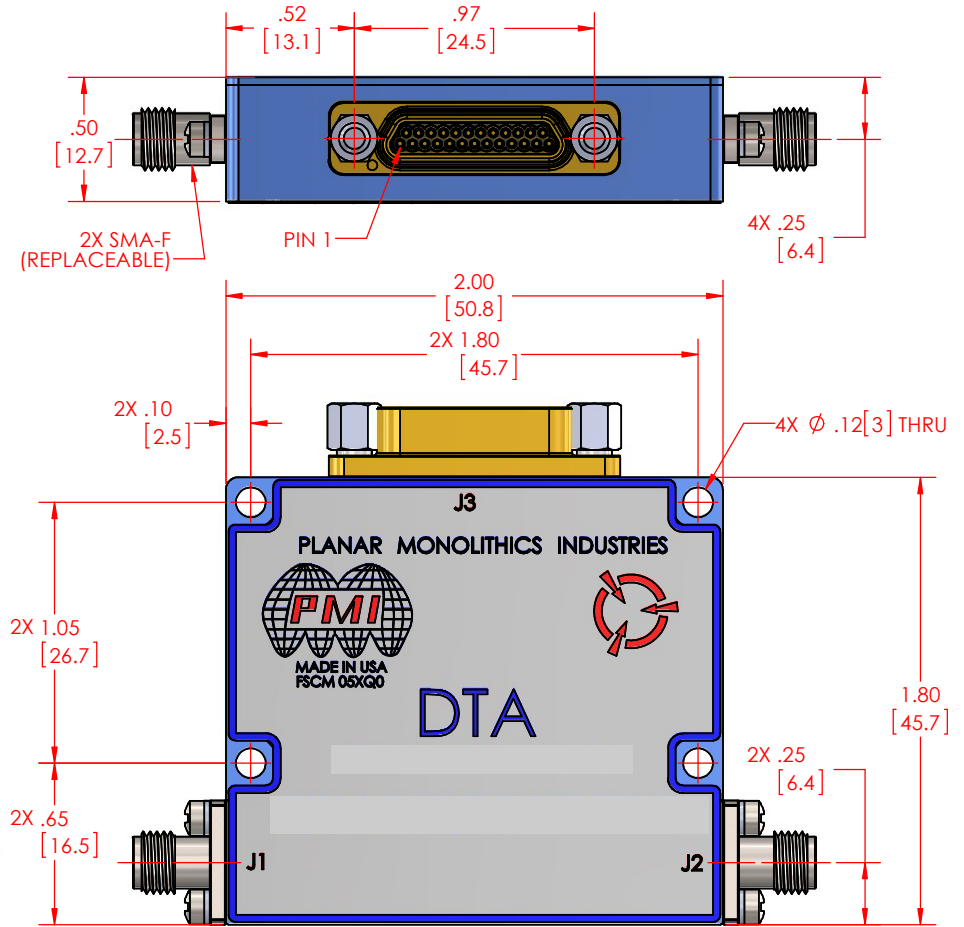
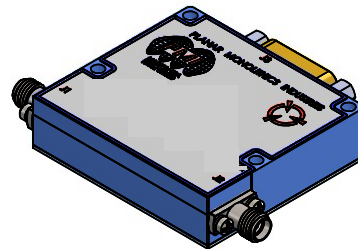
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER DTA-2G20G-64-12-CD-1-20DBM-TS-ES IS A 12 BIT PROGRAMMABLE 64 dB PIN DIODE ATTENUATOR OPERATING OVER THE FREQUENCY RANGE OF 2.0 TO 20.0 GHZ. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" IN HEIGHT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/14/2021	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 GHz TO 20.0 GHz
- MEAN ATTENUATION RANGE:..... 64 dB
- INSERTION LOSS:..... 6.5 dB MAXIMUM
- VSWR:..... 2.0 : 1 MAXIMUM
- FLATNESS UP TO:
 - 20 dB:..... ± 2.0 dB TYPICAL
 - 40 dB:..... ± 2.5 dB TYPICAL
 - 64 dB:..... ± 6.0 dB TYPICAL
- ACCURACY OF ATTENUATION:
 - 20 dB:..... ± 2.0 dB TYPICAL
 - 40 dB:..... ± 3.0 dB TYPICAL
 - 64 dB:..... ± 4.0 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:..... 2.0 us MAXIMUM
 - OFF TIME:..... 2.0 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):..... -0.3 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:..... +10°C TO +50°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		DATE	TITLE		
DRAWN	SPH	9/14/2021	OUTLINE		
ISSUED			DTA-2G20G-64-12-CD-1-20DBM-TS-ES		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			SIZE	FSCM NO.	DWG NO.
			B	05XQ0	PRELIMINARY
			SCALE 2:1		SHEET 1 OF 1

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