DESCRIPTION:

PMI MODEL NUMBER DTA-0R4G18G-60-CD-1 IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 dB OVER THE FREQUENCY RANGE OF 0.4 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: 0.4 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS: 4.8 dB MAX
- VSWR: 2.0 :1 MAX
- FLATNESS UP TO:
  - 20 dB ±1.0 dB TYP, ± 1.5 dB MAX
  - 40 dB ±1.25 dB TYP, ± 1.75 dB MAX
  - 60 dB ±3.0 dB TYP, ± 5.0 dB MAX
- ACCURACY OF ATTENUATION:
  - 0 dB TO 20 dB ±1.0 dB MAX
  - 20 dB TO 40 dB ±1.5 dB MAX
  - 40 dB TO 60 dB ±2.0 dB MAX
- MINIMUM ATTENUATION STEP: 0.06 dB
- OPERATING POWER: 15 dBm MIN
- SURVIVAL POWER: 1W Average from -65°C to +25°C
- SWITCHING TIME:
  - ON TIME 1.0 us MAX
  - OFF TIME 0.5 us MAX
- DC POWER SUPPLY: +12 to 15V @ 150 mA MAX
- CONNECTORS: 2 SMA & 15 PIN Micro-D-Female (ITT Cannon MDM15SSP or similar)
- WEIGHT: 3.0 oz (85 gm) Approximate
- FINISH: PAINTED BLUE

PIN NO:	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB
4	0.25dB
5	GND
6	0.13 dB
7	0.06 dB (LSB)
8	GND
9	Not Used
10	Not Used
11	+12 to 15VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

- LOGIC INPUT:
  - LOGIC "0" (BIT OFF) -0.3 to +0.8V
  - LOGIC "1" (BIT ON) +2.0 to +5.0V

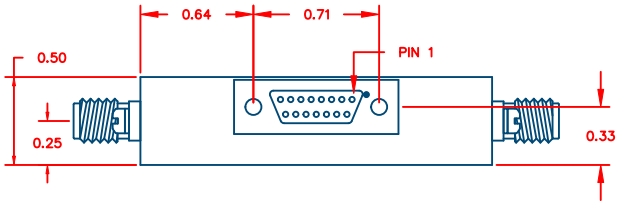
ENVIRONMENTAL RATINGS:

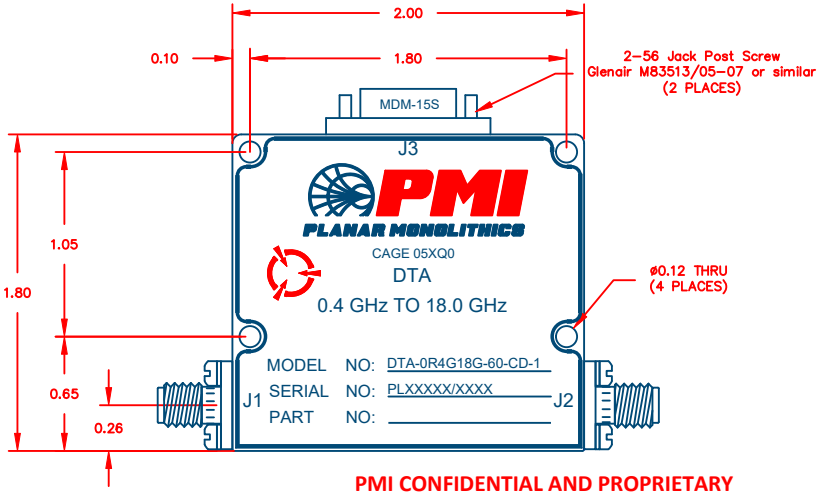
- TEMPERATURE: -55°C TO +85°C (OPERATING) -57°C TO +85°C (STORAGE)
- HUMIDITY: MIL-E-5400T 3.2.24.4, 5 TO 95% RH
- SHOCK: MIL-E-5400T 3.2.24.6.1, 15G 11 ± 1 ms 6 DIRECTIONS
- VIBRATION: MIL-E-5400T 3.2.24.5, FIGURE 2 SHEET 1 OF CURVE III
- ALTITUDE: UP TO 10,000 m

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/5/19	
	A2	ECN # 20-0050	03/11/20	
	B1	ECN # 24-0310	10/30/24	





PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7309-A GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN NJA	9/5/19
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
DTA-0R4G18G-60-CD-1

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27037160	B1

SCALE N:S SHEET 1 OF 1