

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
 - 40 dB ±1.25 dB TYP
 - 60 dB ±3.0 dB TYP
- ACCURACY OF ATTENUATION:
 - 0 dB TO 20 dB ±1.0 dB TYP
 - 20 dB TO 40 dB ±1.5 dB TYP
 - 40 dB TO 60 dB ±2.0 dB TYP
- MINIMUM ATTENUATION STEP: 0.06 dB
- OPERATING POWER: 15dBm TYP
- 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)
Shipped with Mating Micro-D Male (ITT Cannon MDM15PSP or similar)
- 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

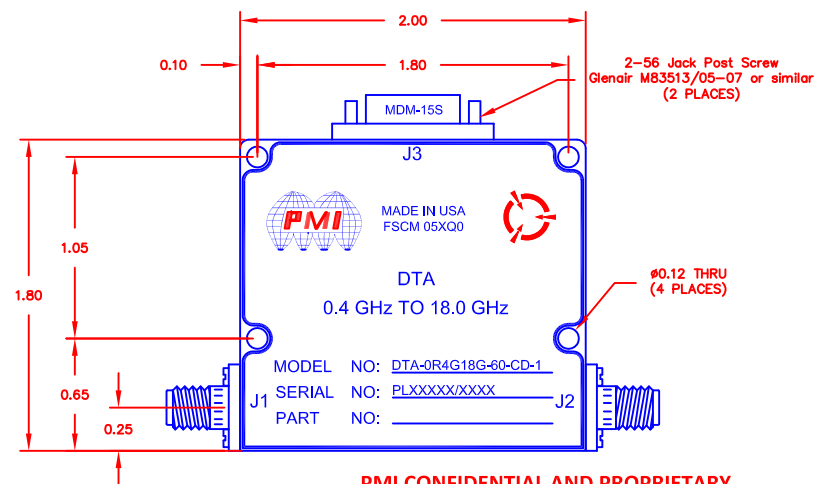
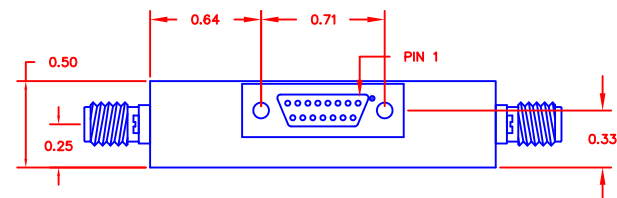
ENVIRONMENTAL RATINGS:

- 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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	3/18/19	
	1	UPDATED SPECS	3/20/19	
	2	UPDATED SPECS	7/5/19	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN <i>JPH</i>		3/18/19		PRODUCT FEATURE	
CHECKED				DTA-0R4G18G-60-CD-1	
ISSUED				PRELIMINARY	
SIZE A		FSCM NO. 05XQ0		DWG NO.	
SCALE N:S				SHEET 1 OF 1	

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