

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:

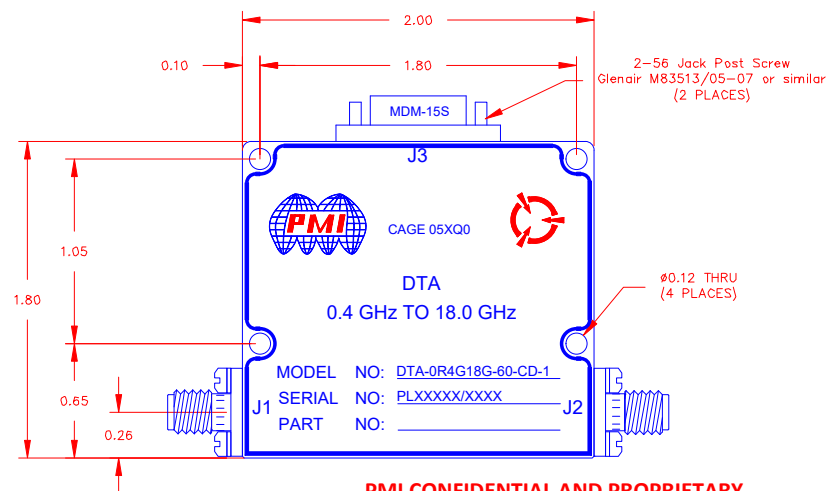
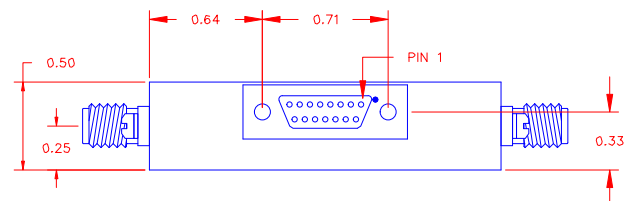
- FREQUENCY: _____ 0.4 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: _____ 60 dB
- INSERTION LOSS: _____ 4.8 dB MAX
- VSWR: _____ 2.0 :1 MAX
- FLATNESS UP TO:
 - 20 dB _____ ± 1.0 dB TYP
 - 40 dB _____ ± 1.25 dB TYP
 - 60 dB _____ ± 3.0 dB TYP
- ACCURACY OF ATTENUATION:
 - 0 dB TO 20 dB _____ ± 1.0 dB TYP
 - 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 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
- 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

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
	A1	ORIGINAL RELEASE	9/5/19	
	A2	ECN # 20-0050	03/11/20	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F 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	TITLE			
DRAWN		NJA	PRODUCT FEATURE			
CHECKED			DTA-0R4G18G-60-CD-1			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27037160	A2
			SCALE	N:S		SHEET 1 OF 1

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION