

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-60-CD-2 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 2.0 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: _____ 2.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: _____ 60 dB
- INSERTION LOSS: _____ 4.5 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: _____ 15 dBm 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: _____ +15V @ 150 mA MAX
- CONNECTORS: _____ 2 SMA & 15 PIN Micro-D-Female
Shipped with Mating Micro-D Male
- WEIGHT: _____ 3.0 oz (85 gm) Approximate
- FINISH: _____ BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- LOGIC INPUT:
 - LOGIC "0" (BIT OFF) _____ -0.3 to +0.8V
 - LOGIC "1" (BIT ON) _____ +2.0 to +5.0V

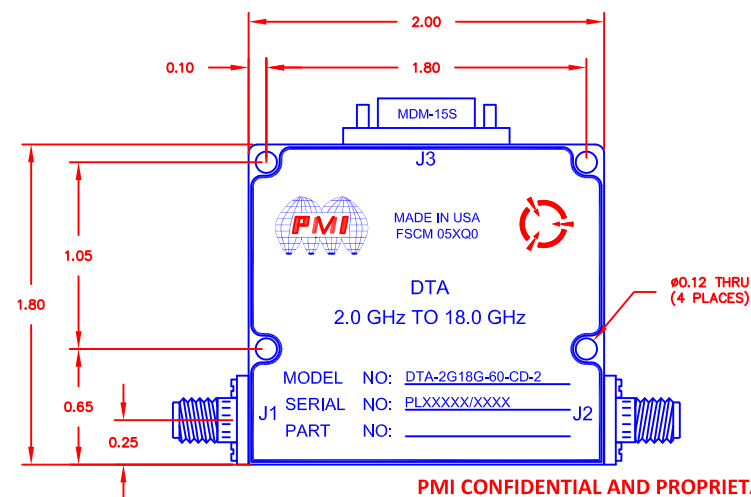
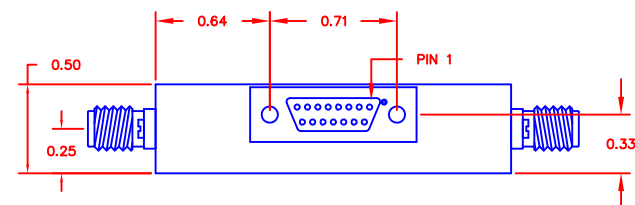
ENVIRONMENTAL RATINGS:

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

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	+12VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/28/11	PJK
	A2	ECN # 13-0131	8/28/13	
	A3	ECN # 15-0010	2/09/15	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN		J.M.	PRODUCT FEATURE		
CHECKED		12/28/11	DTA-2G18G-60-CD-2		
ISSUED			SIZE	FSCM NO.	REV.
			A	05XQ0	A3
			SCALE	N:S	
			DWG NO.		
			27016021		
			SHEET		
			1 OF 1		

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