

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-60-CD-2-OPT1G6G 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 1.0 TO 6.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: 1.0 GHz TO 6.0 GHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS: 4.0 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

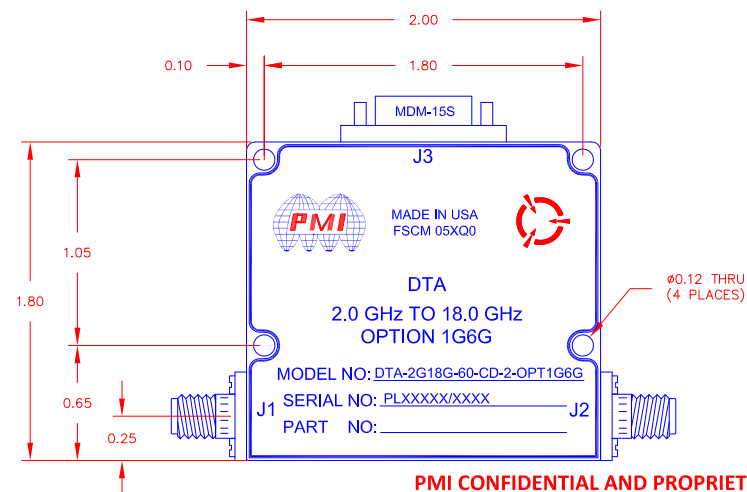
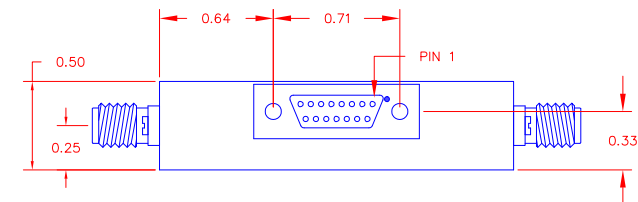
ENVIRONMENTAL RATINGS:

- 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
	—	PRELIMINARY	3/4/15



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		3/4/15		PRODUCT FEATURE			
CHECKED				DTA-2G18G-60-CD-2-OPT1G6G			
ISSUED				PRELIMINARY			
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0				—	
SCALE		N:S				SHEET	
						1 OF 1	

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