

DESCRIPTION:

PMI MODEL NUMBER DTA-0R5G18G-60-16-CD-1 IS A NON-REFLECTIVE 16 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.001 dB OVER THE FREQUENCY RANGE OF 0.5 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: _____ 0.5 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: _____ 0.001 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: _____ +15V @ 150 mA MAX
- CONNECTORS: _____ 2 SMA & 25 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

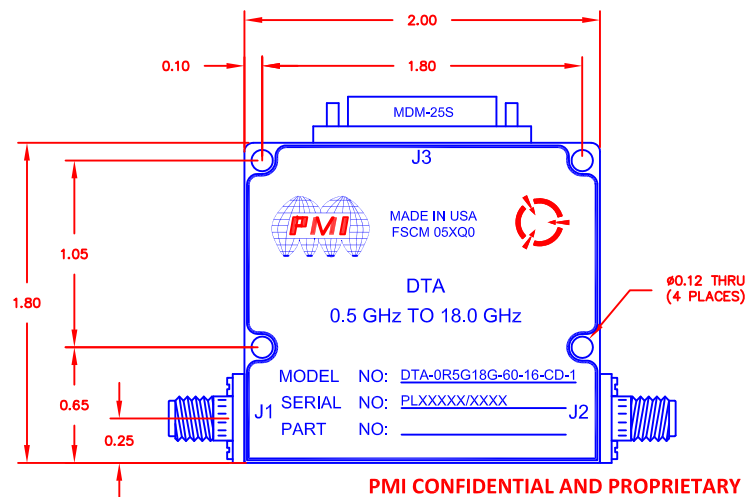
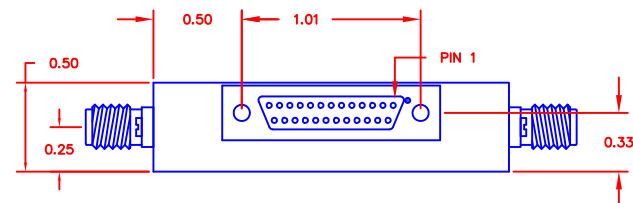
ENVIRONMENTAL RATINGS:

- 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
8	GND
9	Not Used
10	Not Used
11	+12VDC
12	32 dB (MSB)
13	16 dB
14	8 dB
15	4 dB
16	0.03 dB
17	0.016 dB
18	0.008 dB
19	0.004 dB
20	0.002 dB
21	0.001 dB (LSB)
22	Not Used
23	Not Used
24	Not Used
25	Not Used

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	10/31/17	



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 <i>DPD</i>		10/31/17		PRODUCT FEATURE	
CHECKED				DTA-0R5G18G-60-16-CD-1	
ISSUED				PRELIMINARY	
SIZE A		FSCM NO. 05XQ0		DWG NO.	
SCALE N:S				REV. 1	
				SHEET 1 OF 1	

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