

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-60-16-CD-1-TS IS A NON-REFLECTIVE 16 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR 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: 4.8 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: 20dBm 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
 - TEMP SENSOR: 10 mV/ °C, 3V @ 25°C

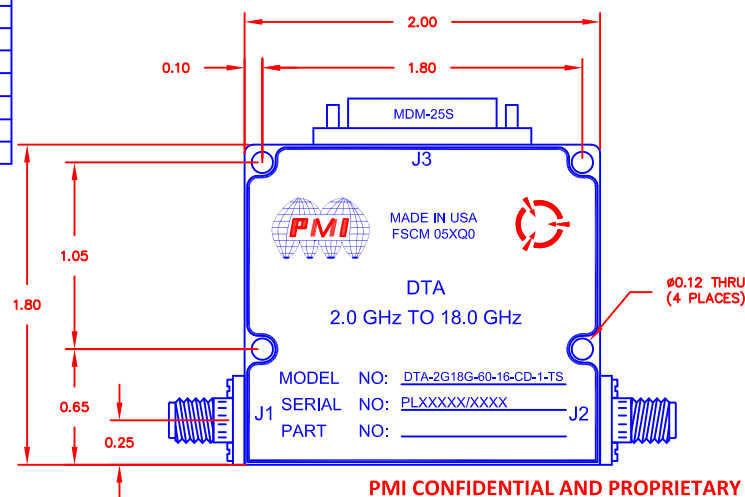
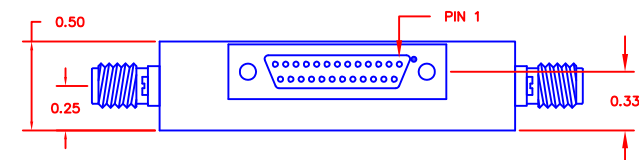
ENVIRONMENTAL RATINGS:

- TEMPERATURE: +10°C TO +50°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	+VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB
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	NC
23	NC
24	Temp Sensor
25	Temp Sensor Return

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	1/16/18	



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>flk</i>		10/15/12	PRODUCT FEATURE			
REDRAWN <i>EMF</i>		1/18/18	DTA-2G18G-60-16-CD-1-TS			
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1
			SCALE N:S		SHEET 1 OF 1	

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