

DESCRIPTION:

PMI MODEL NUMBER DTA-1G18G-60-7-CD-1-HERM IS A NON-REFLECTIVE 7 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH A STEP RESOLUTION OF 0.5 dB OVER THE FREQUENCY RANGE OF 1 TO 18 GHz. THIS MODEL IS IN A HERMETICALLY SEALED PACKAGE.

SPECIFICATIONS:

- FREQUENCY: _____ 1 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: _____ 60 dB
- INSERTION LOSS: _____ 5 dB MAX, 4.8 dB TYP
- VSWR: _____ 2.0 :1 MAX
- FLATNESS UP TO:
 - 20 dB _____ ± 1.0 dB MAX
 - 40 dB _____ ± 1.25 dB MAX
 - 60 dB _____ ± 3.0 dB MAX
- MONOTONICITY: _____ GUARANTEED
- TEMPERATURE COEFFICIENT (MAX): _____ ± 0.02 dB/ $^{\circ}$ C
- ACCURACY OF ATTENUATION:
 - 0 dB TO 20 dB _____ ± 1.0 dB MAX
 - 20 dB TO 40 dB _____ ± 1.5 dB MAX
 - 40 dB TO 60 dB _____ ± 2.0 dB MAX
- MINIMUM ATTENUATION STEP: _____ 0.5 dB
- OPERATING POWER: _____ +17 dBm CW
- SURVIVAL POWER: _____ 1W Average from
-65 $^{\circ}$ C to +25 $^{\circ}$ 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
- SEALING: _____ HERMETIC
- 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 @ 10 uA MAX:
 - LOGIC "0" (BIT OFF) _____ -0.3 to +0.8V
 - LOGIC "1" (BIT ON) _____ +2.0 to +5.0V

ENVIRONMENTAL RATINGS:

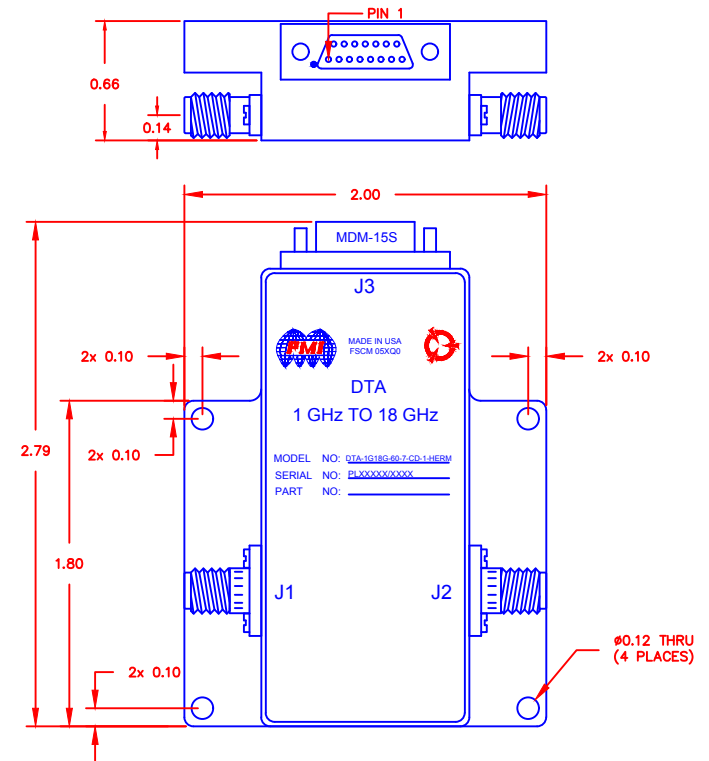
- TEMPERATURE: _____ -40 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
-65 $^{\circ}$ C TO +125 $^{\circ}$ C (STORAGE)
- HUMIDITY: _____ MIL-STD-202F, METHOD 103B COND. B (96 HOURS @ 95%)
- SHOCK: _____ MIL-STD-202F, METHOD 213B COND. B (75 g, 6 ms)
- VIBRATION: _____ MIL-STD-202F, METHOD 204D COND. B
(LESSER OF 0.06" DOUBLE AMPLITUDE OR 15g)
- ALTITUDE: _____ MIL-STD-202F, METHOD 105C COND. B (50,000 FT.)
- TEMPERATURE CYCLE: _____ MIL-STD-202F, METHOD 107D, COND. A (5 CYCLES)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/4/18	

PIN NO:	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB (LSB)
4	NC
5	GND
6	NC
7	NC
8	GND
9	NC
10	NC
11	+15VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB



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>		10/4/18		PRODUCT FEATURE DTA-1G18G-60-7-CD-1-HERM	
REDRAWN				SIZE A	FSCM NO. 05XQ0
ISSUED				DWG NO. 27036061	REV. A1
				SCALE N:S	SHEET 1 OF 1