

DESCRIPTION:

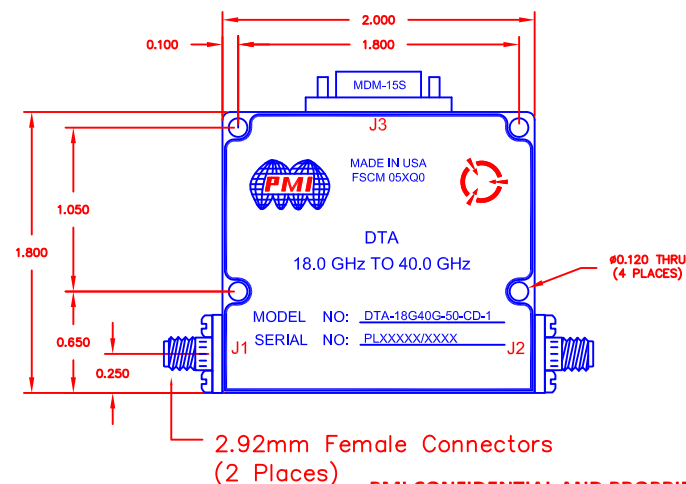
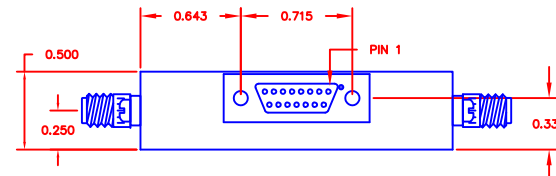
PMI MODEL NUMBER DTA-18G40G-50-CD-1 IS A 10 BIT PROGRAMMABLE 50 dB ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.05 dB OVER THE FREQUENCY RANGE OF 18 GHz TO 40 GHz. THIS MODEL IS OFFERED IN THE SLIM LINE HOUSING MEASURING ONLY 0.5" IN HEIGHT WITH 2.92mm FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY: 18 GHz TO 40 GHz
- MEAN ATTENUATION RANGE: 50 dB
- INSERTION LOSS: 8.5 dB TYP
- VSWR: 2.5:1 MAX
- FLATNESS: ±1.5 dB TYP
- ACCURAY OF ATTENUATION: ±2.0 dB TYP
- POWER HANDLING CAPABILITY: +24 dBm CW MAX
- INPUT 1dB COMPRESSION: +10 dBm TYP
- SWITCHING TIME:
 - ON TIME 1.0 us MAX
 - OFF TIME 0.5 us MAX
- POWER SUPPLY: 15V @ 100mA MAX
- CONNECTORS: (2) 2.92mm(F) & 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

PIN NO:	J3 PIN FUNCTIONS
1	1.6dB
2	0.8dB
3	0.4dB
4	0.2dB
5	GND
6	0.1 dB
7	0.05 dB (LSB)
8	GND
9	Not Used
10	Not Used
11	+15VDC
12	25.6dB (MSB)
13	12.8dB
14	6.4dB
15	3.2dB

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	12/22/15	
	A1	ECN # 16-0193	12/07/16	
	B1	ECN # 18-0197	09/25/18	



PMI CONFIDENTIAL AND PROPRIETARY

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

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

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APPROVALS		DATE	TITLE		
DRAWN <i>B. Thomas</i>		12/22/15	PRODUCT FEATURE DTA-18G40G-50-CD-1		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27028621
ISSUED			SCALE N:S		REV. B1
					SHEET 1 OF 1