

DESCRIPTION:

PMI MODEL NUMBER DTA-17G22G-60-10D 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 17 TO 22 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: _____ 17 GHz TO 22 GHz
- MEAN ATTENUATION RANGE: _____ 60 dB
- INSERTION LOSS: _____ 8.0 dB TYP
- VSWR: _____ 2.2 :1 MAX
- FLATNESS UP TO:
 - 20 dB _____ ± 1 dB TYP
 - 40 dB _____ ± 1.5 dB TYP
 - 60 dB _____ ± 2 dB TYP
- ACCURACY OF ATTENUATION:
 - 0 dB TO 20 dB _____ ± 0.5 dB TYP
 - 20 dB TO 40 dB _____ ± 0.75 dB TYP
 - 40 dB TO 60 dB _____ ± 1.0 dB TYP
- REPEATABILITY OF ATTENUATION
SETTING @ ANY GIVEN TEMPERATURE: _____ ± 0.2 dB
- MINIMUM ATTENUATION STEP: _____ 0.06 dB
- OPERATING POWER: _____ 20 dBm TYP
- SURVIVAL POWER: _____ 1W Average from
-65°C to +25°C
- SWITCHING TIME:
 - ON TIME (60dB to IL) _____ 1.0 us MAX
 - OFF TIME (IL to 60dB) _____ 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: _____ PAINTED BLUE, MOUNTING SURFACE UNPAINTED AND GOLD PLATED
- LOGIC INPUT:
 - LOGIC "0" (BIT OFF) _____ -0.3 to +0.8V
 - LOGIC "1" (BIT ON) _____ +2.0 to +5.0V

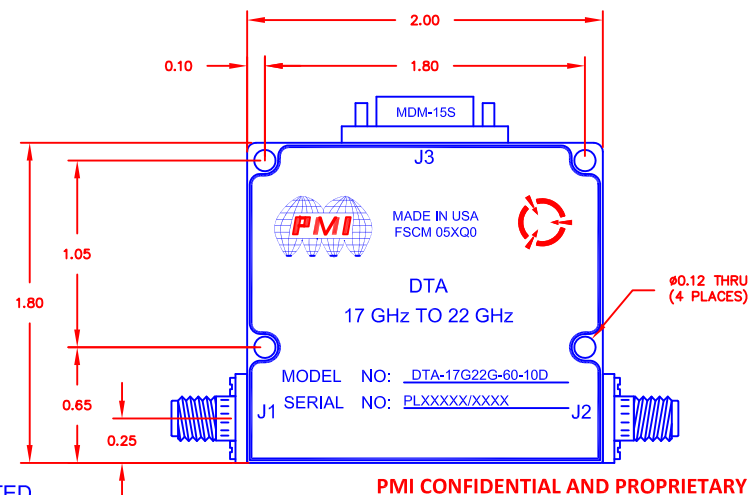
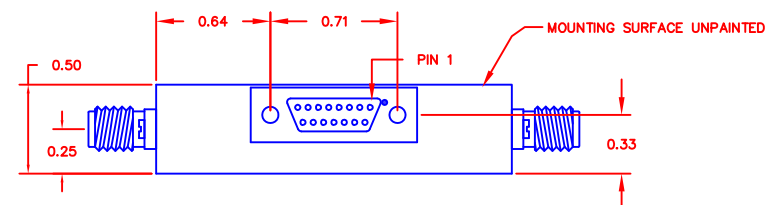
ENVIRONMENTAL RATINGS:

- 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	+15VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	ORIGINAL RELEASE	10/01/14



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE			
DRAWN		10/01/14		PRODUCT FEATURE			
CHECKED				DTA-17G22G-60-10D			
ISSUED				SIZE	FSCM NO.	OWG NO.	REV.
				A	05XQ0	27023826	1
				SCALE	N:S	SHEET	1 OF 1

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