

DESCRIPTION:

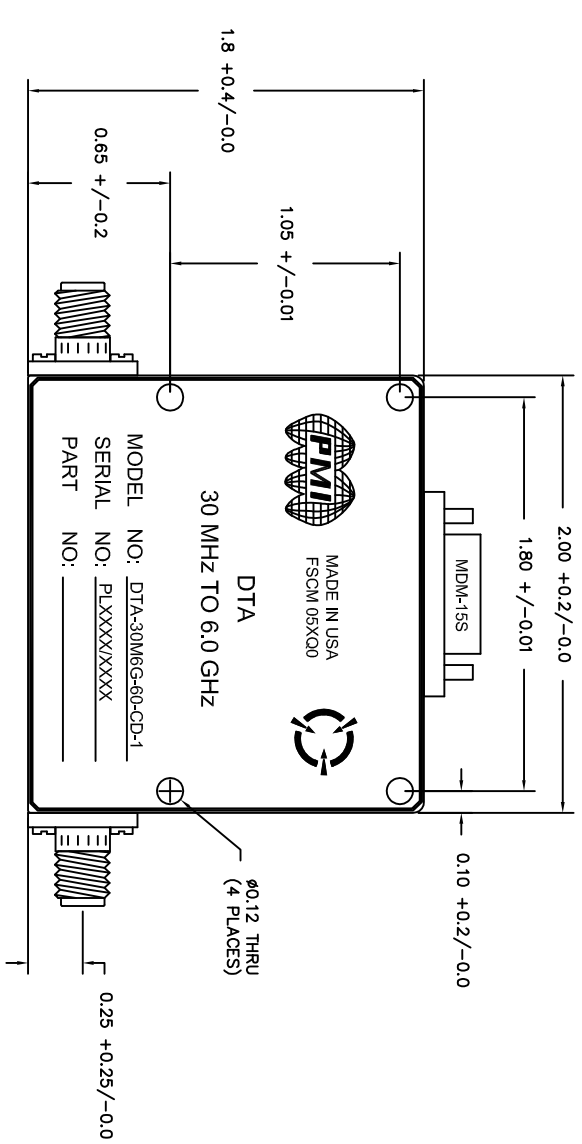
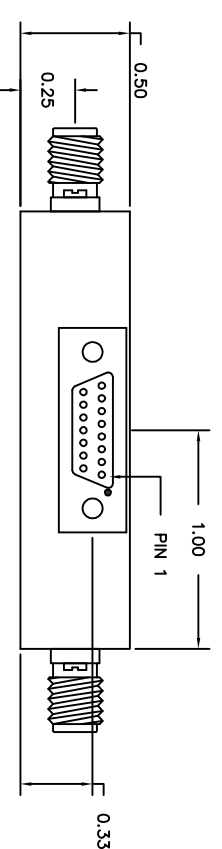
PMI MODEL NUMBER DTA-30M6G-60-CD-1 IS A 8 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 DB OVER THE FREQUENCY RANGE OF 30 MHZ TO 6.0 GHZ.

SPECIFICATIONS:

- FREQUENCY: 0.03 GHZ TO 6.0 GHZ
 - MEAN ATTENUATION RANGE: 60dB
 - INSERTION LOSS: 4.0 DB MAX
 - RETURN LOSS: -8.5dB MAX.
 - MAX POWER RATING: +20dBm MIN
- The maximum total input power that the device can handle without adversely impacting the operating characteristics of the device.
- ATTENUATION FLATNESS:
 - @ 10 dB: ±1.0 dB
 - @ 20dB: ±1.5 dB
 - @ 40dB: ±3.0 dB
 - @ 60dB: ±5.0 dB
 - ACCURAY OF ATTENUATION
 - 0 dB TO 30 dB: ±1.0 dB
 - 30 dB TO 50 dB: ±1.3 dB
 - 50 dB TO 60 dB: ±1.5 dB
 - SWITCHING TIME: 50 USEC MAX
 - DIGITAL CONTROL: 8 BIT Binary TTL
 - INPUT TRACKING: ATTENUATION MUST TRACK INPUT VALUES MONOTONICALLY. WHEN CHANGING FROM ONE SETTING TO ANOTHER, THE ATTENUATION MUST REMAIN BETWEEN THE STARTING ATTENUATION AND THE FINAL ATTENUATION.
 - POWER SUPPLY: 12V @ 155mA MAX
 - PWR/CTL CONNECTORS: 15 PIN Micro-D-Female (MATING CONNECTOR SUPPLIED)
 - RF CONNECTORS: SMA - Female
 - FINISH: PAINTED GREY

PIN NO:	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB
4	0.25dB (LSB)
5	GND
6	Not Used
7	Not Used
8	GND
9	Not Used
10	Not Used
11	+12VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	PRELIMINARY	2/11/11	
-	-	PRELIMINARY R1	3/34/11	



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
 - FUNGUS: MIL-STD-810C, METHOD 508.2
 - TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107
- NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

- LOGIC INPUT
- LOGIC "0" (BIT OFF) -0.3 to +0.8V
- LOGIC "1" (BIT ON) +2.0 to +5.0V

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APPROVALS		DATE	TITLE	
DRAWN		2/11/11	PRODUCT FEATURE	
CHECKED			DTA-30M6G-60-CD-1	
ISSUED			SIZE	FSCM NO.
			A	05X00
			DWG NO.	PRELIMINARY
			SCALE	N:S
			SHEET	1 OF 1

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 XXX ±0.010
 XXXX ±0.005