

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 _____ 4.0dB 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
- ACCURACY 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 _____ +12VDC @ 155mA MAX (10.8VDC minimum and 13.2VDC maximum)
- PWR/CTL CONNECTORS _____ 15 PIN Micro-D-Female (MATING CONNECTOR SUPPLIED)
- RF CONNECTORS _____ SMA - Female
- FINISH _____ PAINTED BLUE

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

ENVIRONMENTAL RATINGS:

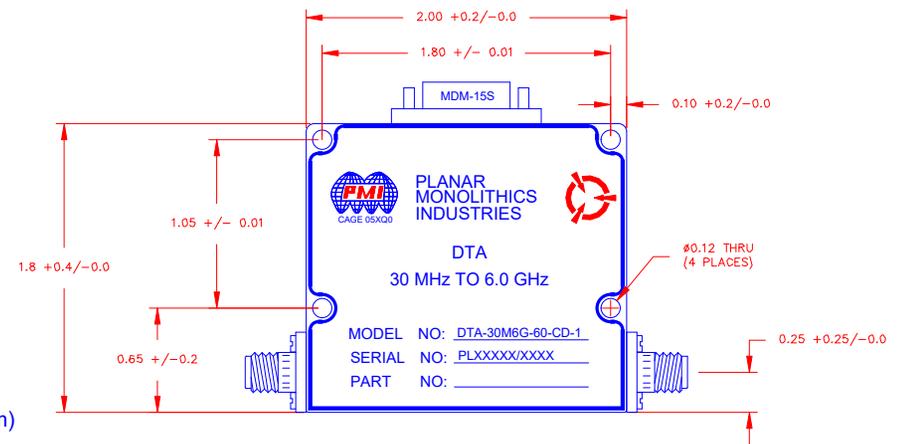
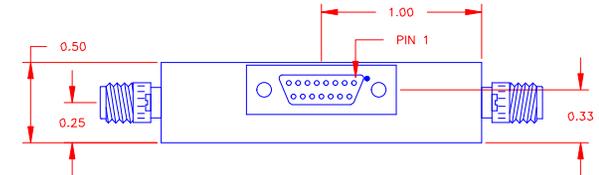
- TEMPERATURE: _____ -40°C TO +85°C (OPERATING)
_____ -65°C TO +125°C (STORAGE)
- HUMIDITY: _____ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: _____ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: _____ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: _____ MIL-STD-202F, METHOD 105C COND. B
- FUNGUS: _____ MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: _____ MIL-STD-202F, METHOD 107

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/11/11	
	A2	ECN # 13-0151	09/16/13	
	A3	ECN # 18-0191	09/12/18	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>KM</i>		2/11/11	PRODUCT FEATURE		
CHECKED			DTA-30M6G-60-CD-1		
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27014801
					REV. A3
			SCALE N:S	SHEET 1 OF 1	

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION