

DESCRIPTION:

PMI MODEL NUMBER DTA-400M2G-32-8B IS A 8 BIT PROGRAMMABLE 32 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.125 DB OVER THE FREQUENCY RANGE OF 400 MHz TO 2.0 GHz.

SPECIFICATIONS:

- FREQUENCY: 400 MHz TO 2.0 GHz
- MEAN ATTENUATION RANGE 32dB
- 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 ±0.5 dB
 - @ 20dB ±1.0 dB
 - @ 40dB ±1.5 dB
 - @ 60dB ±1.75 dB
- ACCURACY OF ATTENUATION
 - 0 dB TO 30 dB ±0.5 dB
 - 30 dB TO 50 dB ±0.75 dB
 - 50 dB TO 60 dB ±1.0 dB
- SWITCHING TIME 10 usec TYP
- 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	1dB
2	0.5dB
3	0.25dB
4	0.125dB (LSB)
5	GND
6	Not Used
7	Not Used
8	GND
9	Not Used
10	Not Used
11	+12VDC
12	16dB (MSB)
13	8dB
14	4dB
15	2dB

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

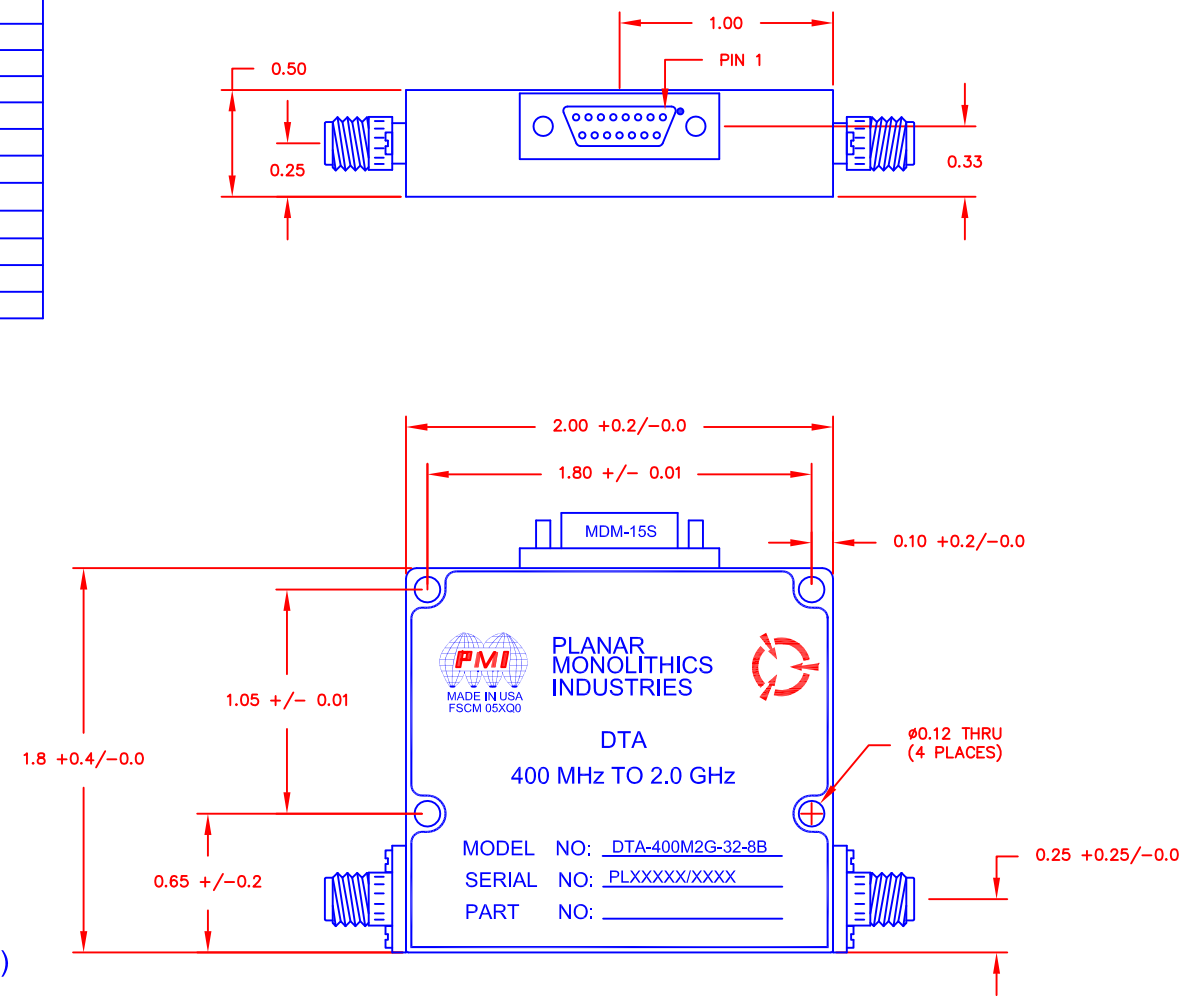
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

- 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
	—	PRELIMINARY	6/18/14	

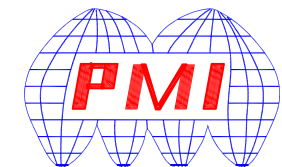
MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			REV.
DRAWN <i>KM</i>		2/11/11	PRODUCT FEATURE			—
CHECKED			DTA-400M2G-32-8B			
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	05XQ0	PRELIMINARY	
			SCALE	N:S	SHEET	1 OF 1