

DESCRIPTION:

PMI MODEL NUMBER DTA-0R8G1G6-10-8D IS AN ABSORPTIVE 8 BIT PROGRAMMABLE 10 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.04 dB OVER THE FREQUENCY RANGE OF 0.8 TO 1.6.GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: 0.8 GHz TO 1.6 GHz
- MEAN ATTENUATION RANGE: 10 dB
- INSERTION LOSS: 3.0 dB MAX
- VSWR: 2.0 :1 MAX
- FLATNESS UP TO:
 - 10 dB ±0.5 dB TYP
- ACCURACY OF ATTENUATION:
 - 0 dB TO 10 dB ±0.25 dB TYP
- MINIMUM ATTENUATION STEP: 0.04 dB
- OPERATING POWER: 15dBm TYP
- SURVIVAL POWER: 1W Average from -65°C to +25°C
- SWITCHING TIME:
 - ON TIME 1.0 us MAX
 - OFF TIME 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
- 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	0.32dB
2	0.16dB
3	0.08dB
4	0.04dB (LSB)
5	GND
6	Not Used
7	Not Used
8	GND
9	Not Used
10	Not Used
11	+VDC
12	5.12dB (MSB)
13	2.56dB
14	1.28dB
15	0.64dB

ENVIRONMENTAL RATINGS:

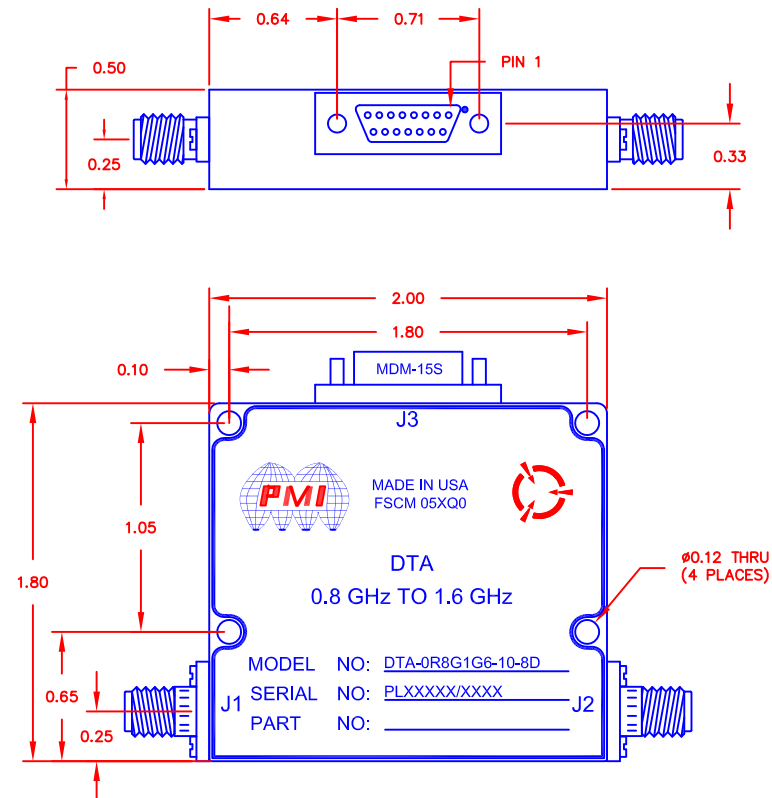
- TEMPERATURE: -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	8/4/14

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>PJK</i>		8/4/14	PRODUCT FEATURE			
CHECKED			DTA-0R8G1G6-10-8D			
ISSUED			SIZE	FSCM NO.	OWG NO.	REV.
			A	05XQ0	270XXXXXX	A2
			SCALE	N:S	SHEET	1 OF 1