

DESCRIPTION:

PMI MODEL NUMBER DTA-100M18G-30-CD-1 IS A 5 BIT PROGRAMMABLE 30 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION OF 1 dB OVER THE FREQUENCY RANGE OF 100 MHz TO 18 GHz.

SPECIFICATIONS:

- FREQUENCY: 100 MHz TO 18 GHz
- MEAN ATTENUATION RANGE: 30dB
- INSERTION LOSS: 5.0 dB TYP
- VSWR: 2.5:1 TYP
- ACCURACY OF ATTENUATION: ± 2.5 dB TYP
- MINIMUM ATTENUATION STEP: 1.0 dB
- POWER HANDLING CAPABILITY: +24 dBm CW MAX
- INPUT 1dB COMPRESSION: +20dBm TYP
- SWITCHING TIME
 - ON TIME: 1.0 usec MAX
 - OFF TIME: 0.5 usec MAX
- POWER SUPPLY: 15V @ 50mA MAX
- CONNECTORS: (2) 2.92mm(F) & 15 Pin Micro-D Female
Shipped with Micro-D mating connector
- WEIGHT: 3.0 oz (85 gm) Approximate
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750,
TYPE I OVER EPOXY POLIMIDE PRIMER
IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- LOGIC INPUT
 - LOGIC "0" (BIT OFF) 0 to +0.8V
 - LOGIC "1" (BIT ON) +2.0 to +5.0V

ENVIRONMENTAL RATINGS:

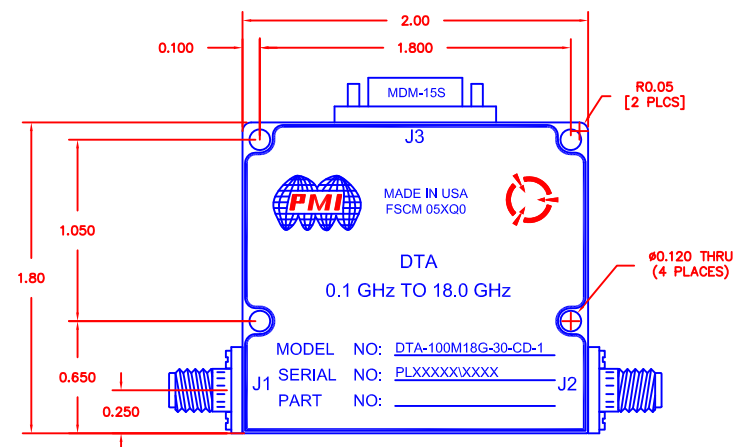
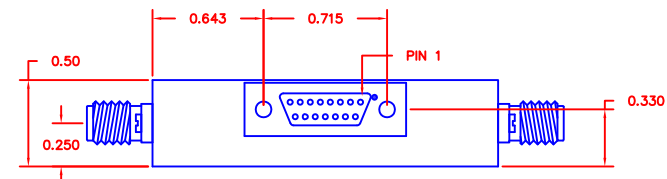
- TEMPERATURE: -50°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/22/13	
	A1	ECN # 14-0070	05-05-14	

PIN NO:	J3 PIN FUNCTIONS
1	1dB
2	N.C.
3	N.C.
4	N.C.
5	GND
6	N.C.
7	N.C.
8	GND
9	N.C.
10	N.C.
11	+15VDC
12	16dB
13	8dB
14	4dB
15	2dB



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		11/22/13	PRODUCT FEATURE			
CHECKED			DTA-100M18G-30-CD-1			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27021551	A1
			SCALE	N:S	SHEET	1 OF 1