

DESCRIPTION:

PMI MODEL NUMBER DTA-14G40G-32-CD-2 IS A 10 BIT PROGRAMMABLE 30 dB ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.04 dB OVER THE FREQUENCY RANGE OF 14 GHz TO 40 GHz. THIS MODEL IS OFFERED IN THE SLIM LINE HOUSING MEASURING ONLY 0.5" IN HEIGHT WITH 2.92mm FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY: 14 GHz TO 40 GHz
 MEAN ATTENUATION RANGE: 32 dB MIN
 INSERTION LOSS: 9.0 dB TYP
 LSB: 0.04 dB
 VSWR: 2.0:1 TYP
 *OPTIMIZE GOAL 15dB (14-14.5GHz & 27-31GHz)
 FLATNESS: ±1.5 dB TYP
 ACCURAY OF ATTENUATION: ±2.0 dB TYP
 POWER HANDLING CAPABILITY: +24 dBm CW MAX
 INPUT 1dB COMPRESSION: +10 dBm TYP
 SWITCHING TIME:
 • ON TIME 1.0 us MAX
 • OFF TIME 0.5 us MAX
 POWER SUPPLY: 15V @ 100mA MAX
 CONNECTORS: (2) 2.92mm(F) & 15 PIN Micro-D-Female
 Shipped with mating Micro-D Male
 LOGIC INPUT: LOGIC "0" (BIT OFF) : -0.3 to +0.8V
 LOGIC "1" (BIT ON) : +2.0 to +5.0V
 WEIGHT: 3.0 oz (85g) Approximate
 SIZE: 2.0" x 1.8" x 0.5"
 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.

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 107D COND. A

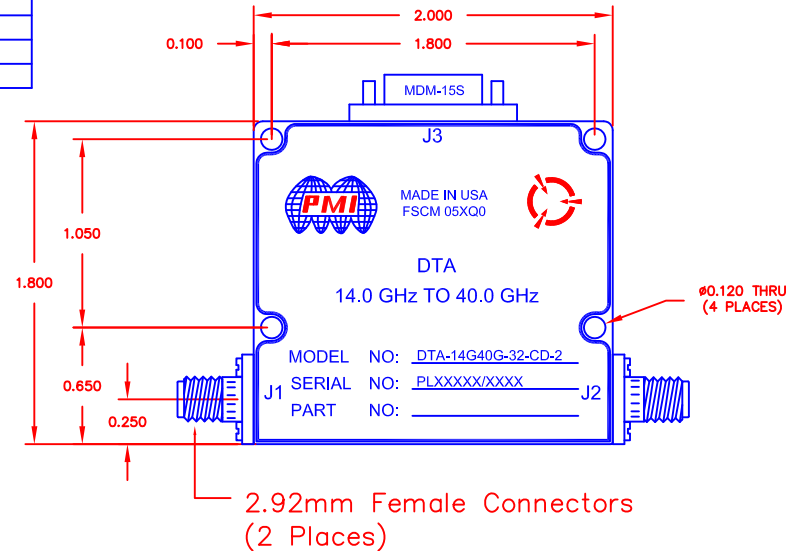
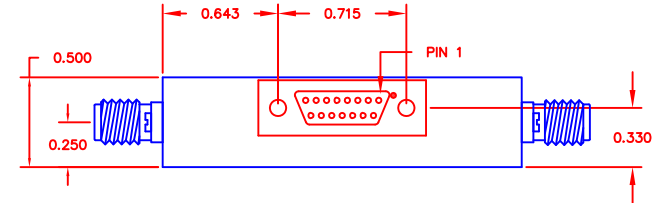
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO:	J3 PIN FUNCTIONS
1	1.28dB
2	0.64dB
3	0.32dB
4	0.16dB
5	GND
6	0.08 dB
7	0.04 dB (LSB)
8	GND
9	Not Used
10	Not Used
11	+12VDC
12	20.48dB (MSB)
13	10.24dB
14	5.12dB
15	2.56dB

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/18/13	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>jgs</i>		11/18/13	PRODUCT FEATURE DTA-14G40G-32-CD-2			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27021691	1
ISSUED			SCALE	N:S		SHEET 1 OF 1