

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

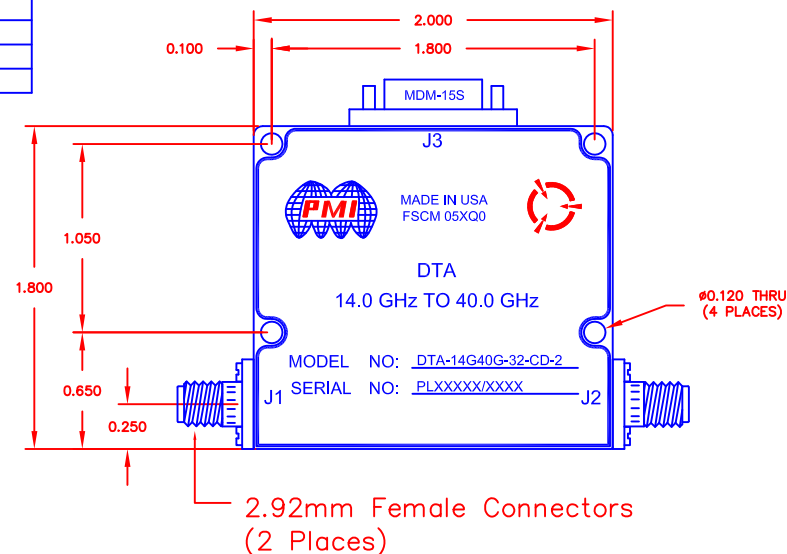
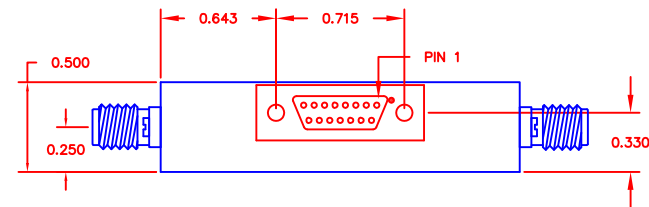
- **TEMPERATURE:** -40°C TO + 85°C (OPERATING)
..... -65°C TO +125°C (STORAGE)
- **HUMIDITY:** MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:** MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:** MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:**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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	ORIGINAL RELEASE	11/18/13
	A1	ECN # 14-0166	10/08/14

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		11/18/13		PRODUCT FEATURE			
CHECKED				DTA-14G40G-32-CD-2			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27021691	A1
				SCALE	N:S	SHEET	1 OF 1

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