

**DESCRIPTION:**

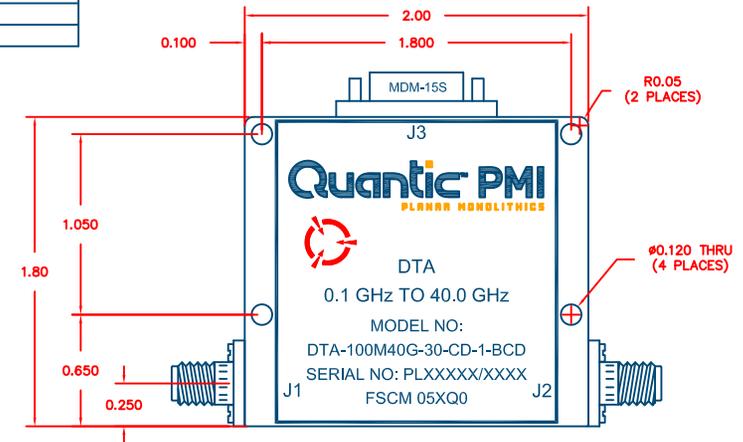
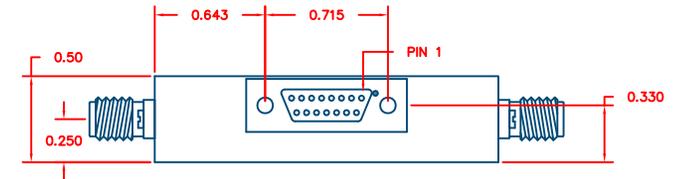
PMI MODEL NUMBER DTA-100M40G-30-CD-1-BCD IS A 6 BIT BCD CONTROL PROGRAMMABLE 30 dB PIN DIODE ATTENUATOR WITH A STEP RESOLUTION OF 1 dB OVER THE FREQUENCY RANGE OF 100 MHz TO 40 GHz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/7/23	
	A2	ECN # 23-0127	7/7/23	

**SPECIFICATIONS:**

- FREQUENCY: 100 MHz TO 40 GHz
- MEAN ATTENUATION RANGE: 30 dB
- INSERTION LOSS: 5.0 dB TYP, 5.5 dB MAX (UP TO 20 GHz)  
7.5 dB TYP, 8.0 dB MAX (UP TO 40 GHz)
- VSWR: 2.5:1 MAX
- ACCURACY OF ATTENUATION: ±1.0 dB MAX @ +25°C
- MINIMUM ATTENUATION STEP: 1.0 dB
- POWER HANDLING CAPABILITY: +24 dBm CW MAX
- INPUT 1dB COMPRESSION: +17 dBm MIN WHEN ATTENUATION >10 dB
- SWITCHING TIME:
  - ON TIME: 1.0 usec MAX
  - OFF TIME: 0.5 usec MAX
- POWER SUPPLY: +12V TO +15V @ 50 mA 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: PAINTED BLUE
- LOGIC INPUT:
  - LOGIC "0" (BIT OFF): ..... 0 TO +0.8V
  - LOGIC "1" (BIT ON): ..... +2.0 TO +5.0V

PIN NO:	J3 PIN FUNCTIONS
1	BCD2
2	BCD1 (LSB)
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	BCD6 (MSB)
13	BCD5
14	BCD4
15	BCD3



**PMI CONFIDENTIAL AND PROPRIETARY**

**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

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APPROVALS		DATE	TITLE			
DRAWN <i>F. ESPANO</i>		3/7/23	OUTLINE			
CHECKED			DTA-100M40G-30-CD-1-BCD			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27045760	A2
			SCALE	SHEET		
			N:S	1 OF 1		