

DESCRIPTION:

PMI MODEL NUMBER DTA-50M2D5G-CD-SFF-1-OPT100M300M IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 DB OVER THE FREQUENCY RANGE OF 100 TO 300 MHz.

SPECIFICATIONS:

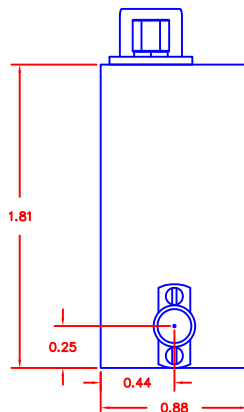
- FREQUENCY: 100 MHz TO 300 MHz
- MEAN ATTENUATION RANGE 60dB
- INSERTION LOSS 4.5 dB MAX
- VSWR: 2.0 :1 MAX
- FLATNESS UP TO
 - 20 dB ±0.6 dB MAX
 - 40 dB ±0.75 dB MAX
 - 60 dB ±2.5 dB MAX
- ACCURACY OF ATTENUATION
 - 0 dB TO 20 dB ±0.5 dB MAX
 - 20 dB TO 40 dB ±0.75 dB MAX
 - 40 dB TO 60 dB ±1.5 dB MAX
- MINIMUM ATTENUATION STEP 0.06 dB
- SURVIVAL POWER: 1W Average from -65°C to +25°C
- SWITCHING TIME
 - ON TIME 0.75 usec TYP
 - OFF TIME 0.45 usec TYP
- DC POWER SUPPLY +15V @ 50mA MAX
-15V @ 50 mA MAX
- CONNECTORS 2 SMA Female & 15 PIN D-SUB
Shipped with Mating D-SUB including pigtails >24" length
- WEIGHT 3.0 oz (85 gm) Approximate
- FINISH BLUE 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) -0.3 to +0.8V
 - LOGIC "1" (BIT ON) +2.0 to +5.0V

ENVIRONMENTAL RATINGS:

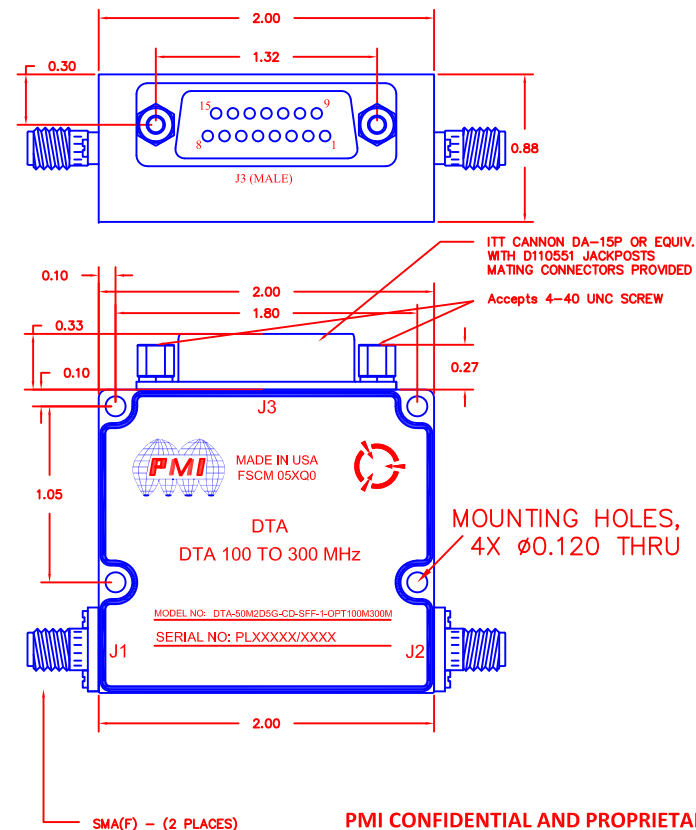
- TEMPERATURE: -50°C TO +100°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO:	J3 PIN FUNCTIONS
1	GND
2	Not Connected
3	0.13 dB
4	GND
5	0.25 dB
6	0.5 dB
7	1.0 dB
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB (MSB)
13	+V
14	-V
15	0.06 dB (LSB)



REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	4/4/18



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APPROVALS		DATE	PRODUCT FEATURE			
DRAWN	VR	6/29/14	DTA-50M2D5G-CD-SFF-1-OPT100M300M			
CHECKED	CW	4/4/18	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	—
			SCALE	N:S	SHEET	1 OF 1

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