

DESCRIPTION:

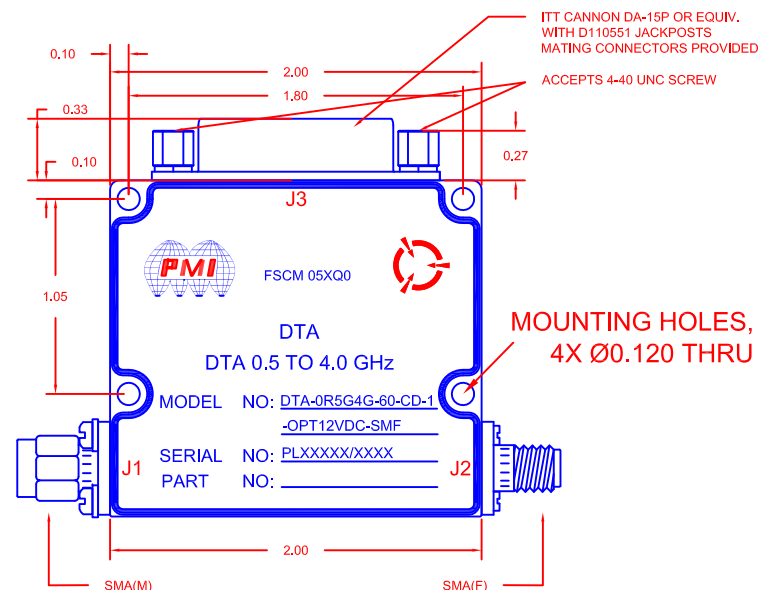
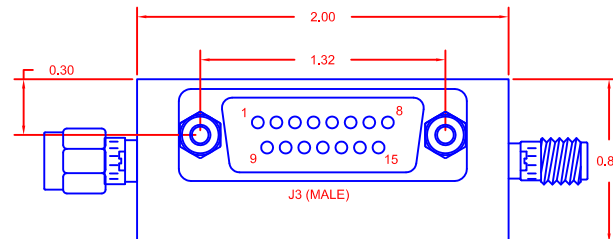
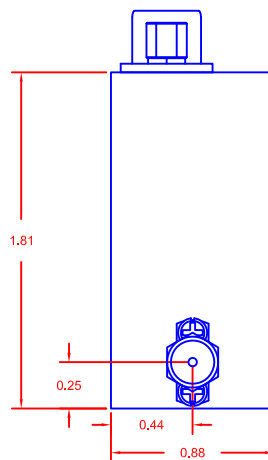
PMI MODEL NUMBER DTA-0R5G4G-60-CD-1-OPT12VDC-SMF IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 DB OVER THE FREQUENCY RANGE OF 0.5 TO 4.0 GHZ.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/7/23	
	-	CONNECTOR UPDATES	12/8/23	

SPECIFICATIONS:

- FREQUENCY: _____ 0.5 GHz TO 4.0 GHz
- MEAN ATTENUATION RANGE: _____ 60 dB
- INSERTION LOSS: _____ 2.7 dB MAX
- VSWR: _____ 1.8:1 MAX
- FLATNESS UP TO:
 - 20dB _____ ±0.5 dB TYP
 - 40dB _____ ±0.75 dB TYP
 - 60dB _____ ±1.0 dB TYP
- ACCURACY OF ATTENUATION:
 - 0 TO 20 dB _____ ±1.0 dB TYP
 - 20 TO 40 dB _____ ±1.5 dB TYP
 - 40 TO 60 dB _____ ±2.0 dB TYP
- MINIMUM ATTENUATION STEP: _____ 0.06 dB
- SURVIVAL POWER: _____ 2W AVERAGE FROM -65 °C to +25 °C
- SWITCHING TIME:
 - ON TIME _____ 1.0 us MAX
 - OFF TIME _____ 0.5 us MAX
- DC POWER SUPPLY: _____ +12 V @ 100mA MAX
 _____ -12 V @ 80 mA MAX
- CONNECTORS: _____ 2 SMA (M/F) & 15 PIN D-SUB
 SHIPPED WITH MATING D-SUB
- WEIGHT: _____ 3.0 oz (85 gm) TYP
- FINISH: _____ PAINTED BLUE
- LOGIC INPUT:
 - LOGIC "0" (BIT OFF) _____ -0.3 TO +0.8 V
 - LOGIC "1" (BIT ON) _____ +2.0 TO +5.0 V

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)



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

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.005

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APPROVALS		DATE	TITLE			
DRAWN <i>AF</i>		12/7/23	PRODUCT FEATURE			
CHECKED			DTA-0R5G4G-60-CD-1-OPT12VDC-SMF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1