

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-64-10B-SFF IS A 10 BIT PROGRAMMABLE 64 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 dB OVER THE FREQUENCY RANGE OF 2.0 GHz TO 18.0 GHz.

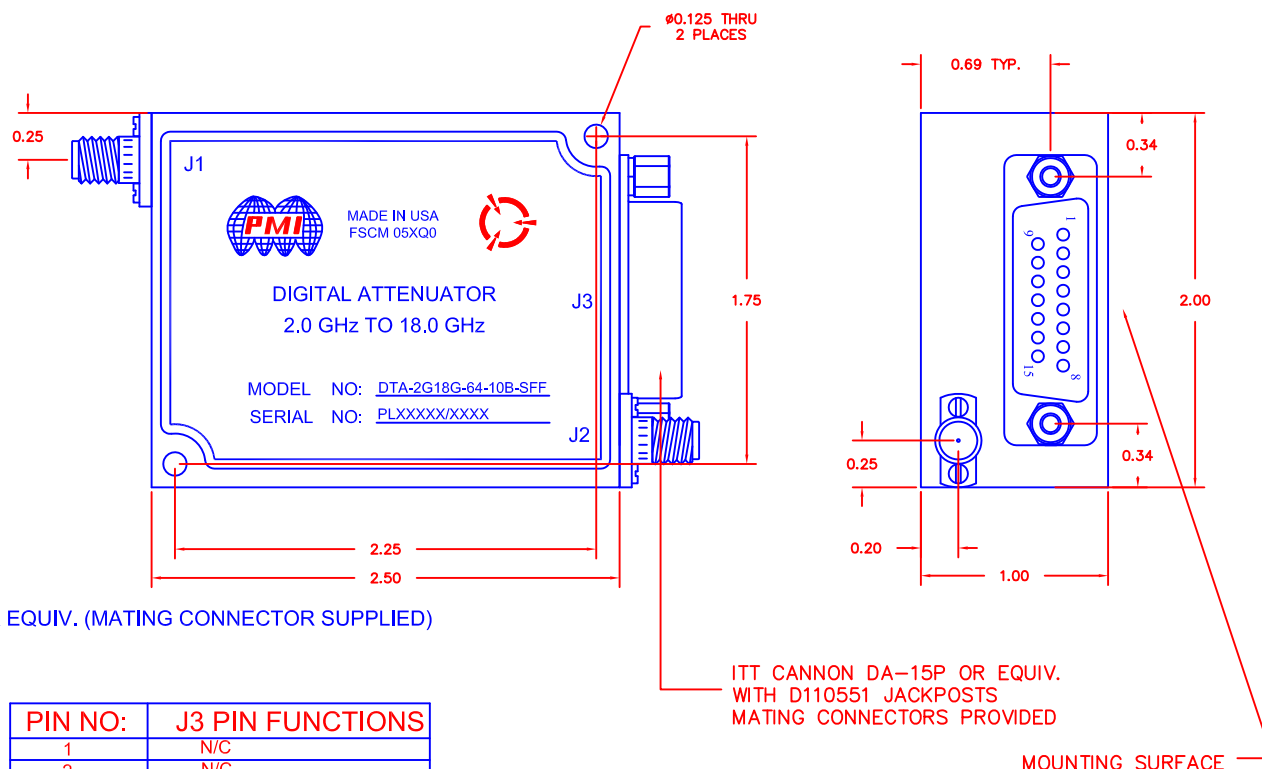
SPECIFICATIONS:

- FREQUENCY: 2.0 GHz TO 18.0 GHz
- INSERTION LOSS: 5.25dB MAX
- ATTENUATION RANGE: 64dB
- ACCURACY OF ATTENUATION:
 - $\pm 1.0\text{dB}$ @ 0 to 20dB
 - $\pm 1.5\text{dB}$ @ 20 to 40dB
 - $\pm 2.0\text{dB}$ @ 40 to 60dB
- ATTENUATION FLATNESS:
 - $\pm 1.0\text{dB}$ @ 20dB
 - $\pm 1.25\text{dB}$ @ 40dB
 - $\pm 3.0\text{dB}$ @ 60dB
- VSWR: 2.0:1 MAX
- SPEED: 1usec MAX
- INPUT POWER: +15dBm CW TYP
- ATTENUATION CONTROL: 10-BIT DIGITAL TTL
- LSB: 0.06dB
- DC SUPPLY: +15VDC, 150mA MAX
- PWR/CTL CONNECTORS: ITT CANNON DA-15P OR EQUIV. (MATING CONNECTOR SUPPLIED)
- RF CONNECTORS: SMA FEMALE
- FINISH: MOUNTING SURFACE FREE OF PAINT (GOLD) 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: -54°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



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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	12/11/14	
	2	IL UPDATED & PIN 15 UPDATED	3/18/15	

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS DATE DRAWN VR CHECKED ISSUED		TITLE					PRODUCT FEATURE	
		DTA-2G18G-64-10B-SFF						
		SIZE	FSCM NO.	DWG NO.		REV.		
		A	05XQ0	27024088		2		
		SCALE	N:S				SHEET	1 OF 1