

DESCRIPTION:

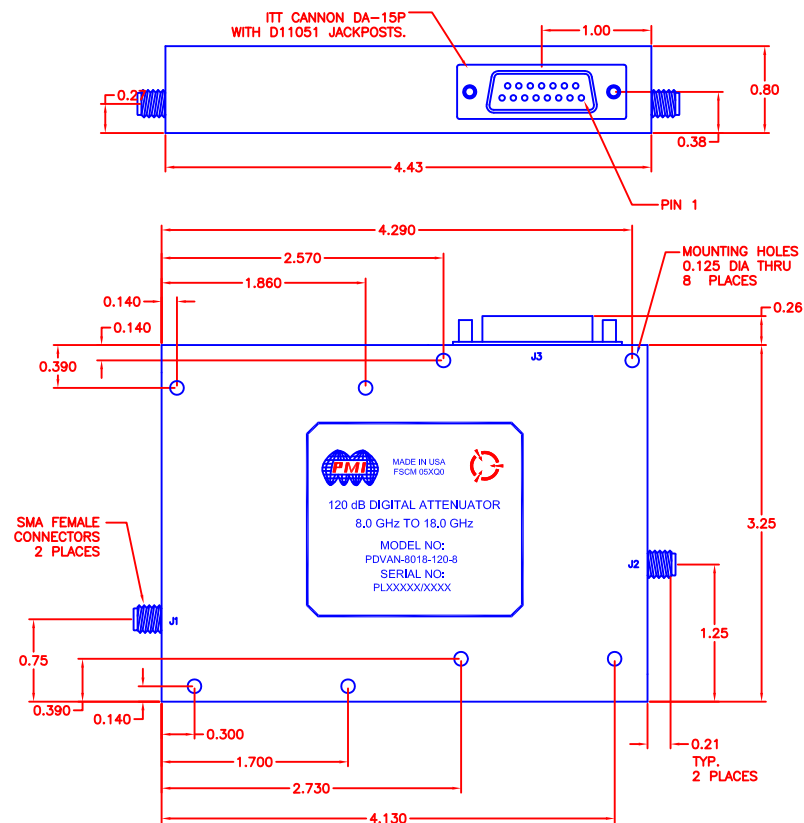
PMI MODEL NUMBER PDVAN-8018-120-8 IS AN 8 BIT PROGRAMMABLE 120 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 1.0 DB OVER THE FREQUENCY RANGE OF 8.0 GHz TO 18.0 GHz.

SPECIFICATIONS:

- FREQUENCY: 8.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: 120dB
- LSB: 1.0dB
- INSERTION LOSS: 7.5dB MAX
- VSWR: 2.0:1 MAX at 0dB Attenuation
- POWER RATING: +20dBm CW MIN (Operating)
+30dBm CW MAX (Survival)
- ATTENUATION FLATNESS:
 - @ 10 dB ±0.8 dB
 - @ 20dB ±1.1 dB
 - @ 40dB ±1.5 dB
 - @ 60dB ±1.6 dB
 - @ 80dB ±2.5 dB
 - @ 120dB ±3.2 dB
- ATTENUATION ACCURACY:
 - @ 0 to 30dB ±0.5 dB
 - @ 30 to 50dB ±1.0 dB
 - @ 50 to 60dB ±1.5 dB
 - @ 60 to 80dB ±2.0 dB
 - @ 80 to 120dB ±2.5 dB
- SWITCHING TIME: 3 usec MAX
- DIGITAL CONTROL: 8 BIT Binary TTL
- INPUT TRACKING: MONOTONIC
- POWER SUPPLY: +12V to +15V @ 250mA MAX
-12V to -15V @ 100mA MAX
- PWR/CTL CONNECTORS: 15 PIN Micro-D-MALE (MATING CONNECTOR SUPPLIED)
- RF CONNECTORS: SMA - Female
- 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.
- SIZE: (L) 2.00" X (W) 1.80" X(H) 0.50"

PIN NO:	J3 PIN FUNCTIONS
1	GND
2	LATCHING STROBE *
3	N/C
4	GND
5	0.50dB (LSB)
6	1.0dB
7	2.0dB
8	4.0dB
9	8.0dB
10	16.0dB
11	32.0dB
12	64.0dB (MSB)
13	+VDC
14	-VDC
15	N/C

* OPTIONAL



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°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

- LOGIC INPUT
LOGIC "0" (BIT OFF) -0.3 to +0.8V
LOGIC "1" (BIT ON) +2.0 to +5.0V

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	4/14/15
			APPROVED
			KM

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APPROVALS		DATE		TITLE			
DRAWN		K. MASON		4/14/15		PRODUCT FEATURE	
CHECKED						PDVAN-8018-120-8	
ISSUED						8-18GHz, 120dB 8-BIT Attenuator	
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		PRELIMINARY		—	
SCALE		N:S		SHEET		1 OF 1	