

DESCRIPTION:

PMI MODEL NUMBER DTA-218-3D5-3-NSI IS A 6 BIT PROGRAMMABLE 31.5 dB ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.5 dB OVER THE FREQUENCY RANGE OF 2 GHz TO 18 GHz. THIS MODEL IS OFFERED IN THE SLIM LINE HOUSING MEASURING ONLY 0.4" IN HEIGHT WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY: 2.0 GHz TO 18.0 GHz
- ATTENUATION RANGE: 31.5 dB MIN
- ATTENUATION STEP SIZE: 0.5 dB MAX
- ATTENUATION ACCURACY: ±10% COMMANDED MIN
- ATTENUATION VS FREQUENCY: ±2.2 dB MAX
- INSERTION LOSS: 9.0 dB MAX, 8.0 dB GOAL
- VSWR: 2.0:1 MAX
- INSERTION LOSS FLATNESS / 1GHz: 0.5 dB MAX
- ACCURACY OF ATTENUATION: ±2.0 dB TYP
- POWER HANDLING CAPABILITY: +27 dBm CW MAX
- INPUT 0.1dB COMPRESSION: +22 dBm TYP
- INPUT 1dB COMPRESSION: +22 dBm MIN
- SWITCHING SPEED: 100 ns MAX
- POWER SUPPLY: +5 & -5 VDC / +/- 50 mA MAX
- CONNECTORS: (2) SMA(F) & 15 PIN Micro-D-Female
- LOGIC INPUT: LOGIC "0" (BIT ON) : 0 to +0.8V (1uA)
LOGIC "1" (BIT OFF) : +2.0 to +5.0V (1uA)
- WEIGHT: 2.0 oz MAX
- SIZE: 1.5" x 0.75" x 0.4"
- 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.

ENVIRONMENTAL RATINGS

- **TEMPERATURE:** 0°C TO + 60°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 107D COND. A

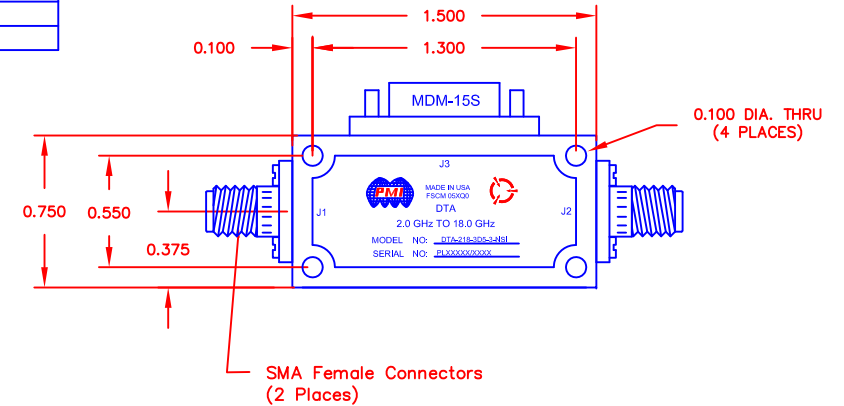
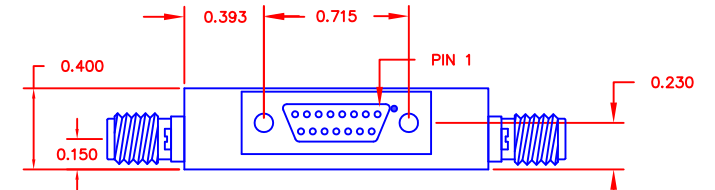
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO:	J3 PIN FUNCTIONS
1	0.5 dB (LSB)
2	1.0 dB
3	2.0 dB
4	4.0 dB
5	8.0 dB
6	16.0 dB (MSB)
7	GND
8	GND
9	GND
10	GND
11	GND
12	+5 VDC
13	GND
14	-5 VDC
15	GND

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/23/2020	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>JPH</i>		1/23/20	PRODUCT FEATURE DTA-218-3D5-3-NSI		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S	SHEET 1 OF 1	