

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-80-9D-SFF IS A NON-REFLECTIVE 9 BIT PROGRAMMABLE 80 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.16 dB OVER THE FREQUENCY RANGE OF 2.0 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY RANGE 2.0–18.0 GHz MINIMUM
- INSERTION LOSS 6.0 dB MAXIMUM
- ATTENUATION FLATNESS
(± dB MAXIMUM)
 - 0–30 dB ±1.0 dB MAXIMUM
 - 30–40 dB ±1.5 dB MAXIMUM
 - 40–50 dB ±2.5 dB MAXIMUM
 - 50–80 dB ±4.0 dB MAXIMUM
- ATTENUATION ACCURACY
 - 0–20 dB ±2.5 dB MAXIMUM
 - 20–30 dB ±1.5 dB MAXIMUM
 - 30–50 dB ±1.5 dB MAXIMUM
 - 50–80 dB ±2.0 dB MAXIMUM
- SWITCHING TIME <1 μ sec (500 nsec TYPICAL)
- VSWR 2.2:1 MAXIMUM
- RF POWER RATINGS
 - OPERATING +20 dBm CW MAXIMUM
 - +10 dBm (0.3 GHz OR BELOW)
 - SURVIVAL +30 dBm CW MAXIMUM
 - +27 dBm (0.3 GHz OR BELOW)
- CONTROL 9 BIT TRUE BINARY LOGIC
- POWER SUPPLY +12VDC @ 375 mA MAXIMUM
- 12VDC @ 50 mA MAXIMUM
- CONNECTORS
 - RF INPUT/OUTPUT SMA FEMALE
 - POWER AND CONTROLS 15 PIN MICRO–D SUBMINIATURE (MALE)
 - MATING CONNECTOR FURNISHED
- SIZE 3.00" x 2.50" x 0.5"

ENVIRONMENTAL RATINGS:

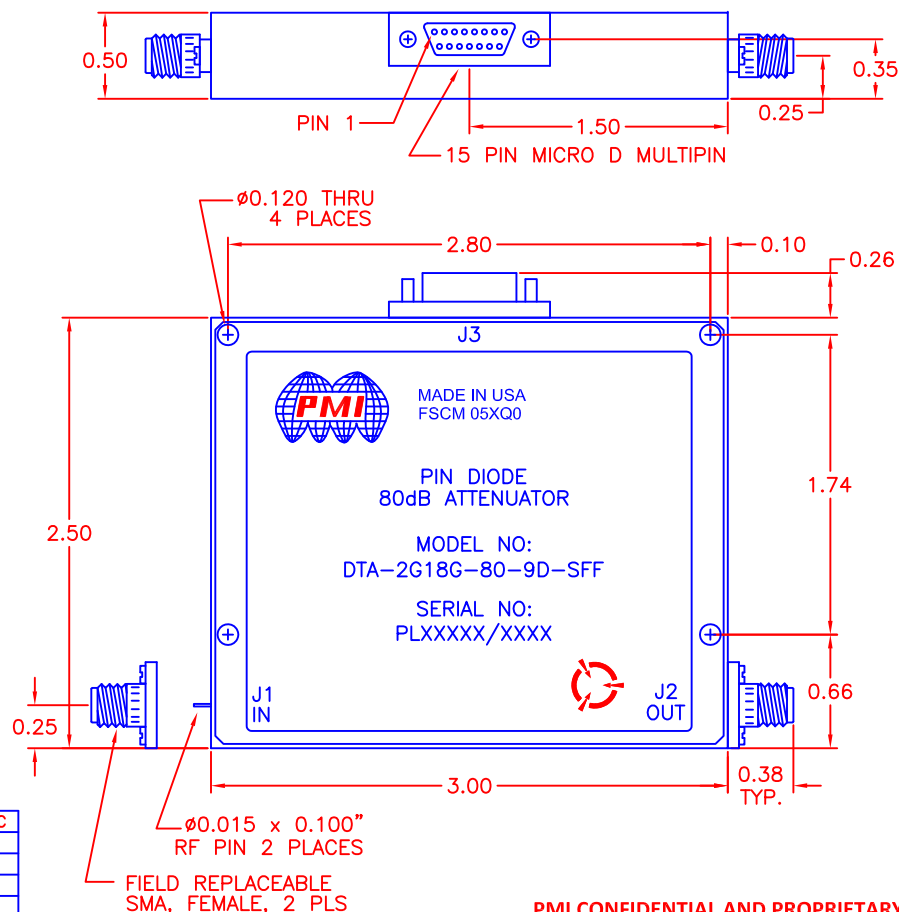
- TEMPERATURE –55°C TO +125°C (OPERATING)
- 65°C TO +125°C (STORAGE)
- HUMIDITY MIL–STD–202F, METHOD 103B COND. B
- SHOCK MIL–STD–202F, METHOD 213B COND. B
- VIBRATION MIL–STD–202F, METHOD 204D COND. B
- ALTITUDE MIL–STD–202F, METHOD 105C COND. B
- TEMPERATURE CYCLE MIL–STD–202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

9 BIT TRUE BINARY LOGIC	
J3	PIN FUNCTION
PIN#	FUNCTION
1	GND
2	N/C
3	0.16 dB (LSB)
4	GND
5	0.31 dB
6	0.63 dB
7	1.25 dB
8	2.5 dB
9	5.0 dB
10	10.0 dB
11	20.0 dB
12	40.0 dB (MSB)
13	+V
14	–V
15	N/C

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	PRELIMINARY	10/3/14	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN <i>K. MASON</i>		10/3/14		PRODUCT FEATURE	
CHECKED				DTA-2G18G-80-9D-SFF	
ISSUED				PRELIMINARY	
SIZE A		FSCM NO. 05XQ0		DWG NO.	
SCALE N:S				SHEET 1 OF 1	