

DESCRIPTION:

PMI MODEL NUMBER DTA-0R5G4G-60-8-Opt0510 IS A NON-REFLECTIVE 8 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 DB OVER THE FREQUENCY RANGE OF 0.5 TO 1.0 GHz.

SPECIFICATIONS:

- FREQUENCY: 0.5 GHz TO 1.0 GHz
- MEAN ATTENUATION RANGE 60dB
- INSERTION LOSS 2.7dB MAX
- VSWR: 1.8:1 MAX
- FLATNESS UP TO
 - 20dB ±0.5dB TYP
 - 40dB ±0.75dB TYP
 - 60dB ±1.0dB TYP
- ACCURACY OF ATTENUATION
 - 0 TO 20 dB ±1.0dB TYP
 - 20 TO 40 dB ±1.5dB TYP
 - 40 TO 60 dB ±2.0dB TYP
- MINIMUM ATTENUATION STEP 0.25dB
- SURVIVAL POWER: 2W Average from -65C to +25C
- SWITCHING TIME
 - ON TIME 1.0 us MAX
 - OFF TIME 0.5 us MAX
- DC POWER SUPPLY +15V @ 100mA MAX
-15V @ 80 mA MAX
- CONNECTORS 2 SMA & 15 PIN D-SUB
Shipped with Mating D-SUB
- SIZE 2.00" X 1.82" X 0.50"
- WEIGHT 3.0 oz (85 gm) Approximate
- FINISH PAINTED BLUE EPOXY
- LOGIC INPUT
 - LOGIC "0" (BIT OFF) -0.3 to +0.8V
 - LOGIC "1" (BIT ON) +2.0 to +5.0V

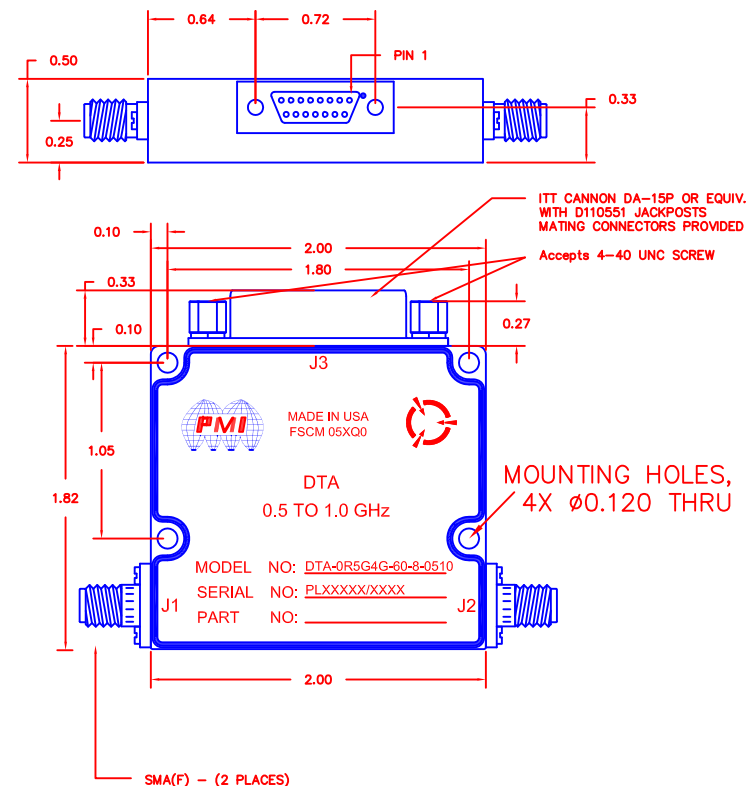
ENVIRONMENTAL RATINGS:

- 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

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)

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	09/25/14



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		09/25/14		PRODUCT FEATURE	
CHECKED				DTA-0R5G4G-60-8-Opt0510	
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	

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