

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-60-1W-10B-HERM IS A 2.0 TO 18.0 GHz, 10 BIT PROGRAMMABLE, 60 dB, PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 dB.

SPECIFICATIONS:

- FREQUENCY: 2.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS 5.0 dB MAX
- VSWR: 2.0 :1 MAX
- ACCURACY OF ATTENUATION
 - 0 dB TO 20 dB: ±1.1 dB MAX
 - 20 dB TO 40 dB: ±1.6 dB MAX
 - 40 dB TO 60 dB: ±2.2 dB MAX
- MINIMUM ATTENUATION STEP: 0.06 dB
- INPUT POWER: 1 W CW MAX (SURVIVAL)
20 dBm CW MAX (OPERATING)
- SWITCHING TIME: 5.0 us MAX
- CONTROL LOGIC: 10-BIT TTL*
ENABLED (ATT ON): "1" (2 TO 5 V)
DISABLED (ATT OFF): "0" (0 TO 0.8 V)
- DC POWER SUPPLY +14.25 TO +15.75 VDC @ 200 mA MAX
- CONNECTORS: 2 SMA (F) & 15 PIN Micro-D
Shipped with Mating Connector
- WEIGHT: 90 g MAX
- FINISH: PAINTED BLUE
- SEALING: HERMETIC

*DEVICE USES EXTERNAL LATCH/STROBE. LATCH IS TRIGGERED ON THE RISING EDGE AND RESET ON THE FALLING EDGE BEFORE ABLE TO PROCESS NEXT DIGITAL WORD. REFERENCE STATE IS ALL BITS LOW '0'. CONTROL LINES HAVE AN INTERNAL PULL-DOWN RESISTOR.

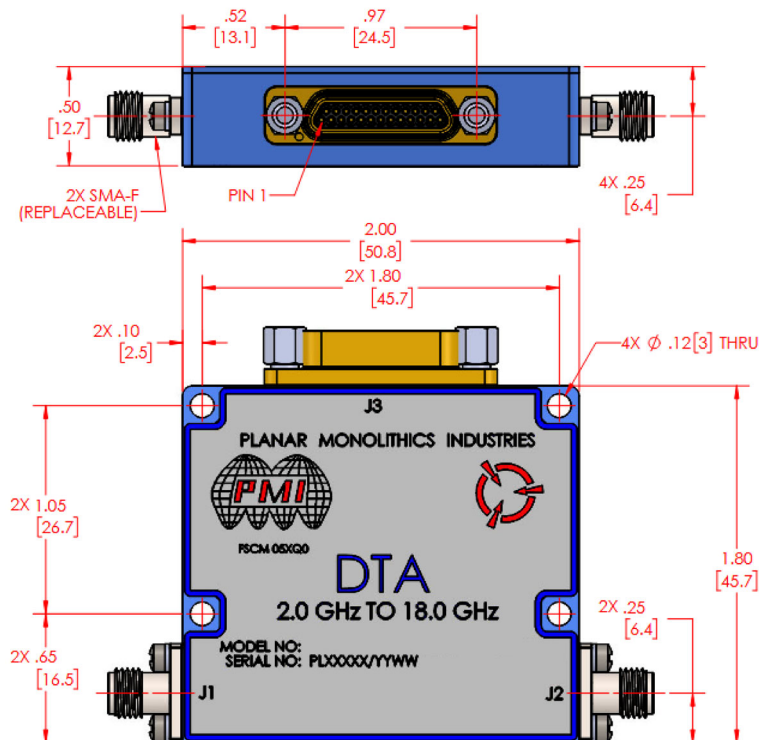


ENVIRONMENTAL RATINGS:

- TEMPERATURE: -54°C TO +85°C (OPERATING)
-57°C TO +95°C (STORAGE)
 - HUMIDITY: DESIGNED TO OPERATE IN 100% RH ENVIRONMENT INCLUDING CONDENSATION PER MIL-HDBK-5400, 4.6.2.4
 - SHOCK: DESIGNED TO SURVIVE AND OPERATE DURING SHOCK PER MIL-HDBK-5400, 4.6.2.6: 20G, 6-9 ms
 - VIBRATION: DESIGNED TO SURVIVE AND OPERATE DURING VIBRATION PER MIL-STD-810F, ANNEX C, FIG. 514. 5C-8
 - ALTITUDE: OPERATIONAL TO 43,000 FT.
- NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO:	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB
4	0.25dB
5	GND
6	0.13dB
7	0.06dB (LSB)
8	GND
9	STAB
10	Not Used
11	+VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	UPDATED POWER SUPPLY	3/5/26	
	2	UPDATED PIN FUNCTIONS	3/16/26	
	3	RENAME PIN 9	3/27/26	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7309-A 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 AG		3/3/26	PRODUCT FEATURE DTA-2G18G-60-1W-10B-HERM		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S	SHEET 1 OF 1	
					REV. 3

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