

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER DTA-2G18G-60-1W-10B-HERM IS A 2 GHz TO 18 GHz, 10 BIT PROGRAMMABLE, 60 dB, PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 dB.

SPECIFICATIONS:

- FREQUENCY RANGE: 2 TO 18.0 GHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS: 5.0 dB MAX
- INPUT / OUTPUT VSWR: 2:1 MAX
- ATTENUATION ACCURACY: UP TO 20 dB: ±1.1 dB TYP
UP TO 40 dB: ±1.6 dB TYP
UP TO 60 dB: ±2.2 dB TYP
- MINIMUM ATTENUATION STEP: 0.06 dB NOM
- INPUT POWER: 1 WATT CW MAX (SURVIVAL)
+20 dBm CW MAX (OPERATING)
- SWITCHING SPEED: 5us MAX
- CONTROL LOGIC: 10 BIT TTL *
ENABLED (ATT ON): "1" (2 TO 5V)
DISABLED (ATT OFF): "0" (0 TO 0.8V)
- POWER SUPPLY: +14.25 TO +15.75VDC @ 200 mA MAX
- CONNECTORS: 2X SMA FEMALE
15-PIN MICRO-D FEMALE
(SHIPPED WITH MATING CONNECTOR)
- WEIGHT: 90g MAX
- FINISH: PAINTED BLUE
- SEALING: HERMETIC

*DEVICE USES AN 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:

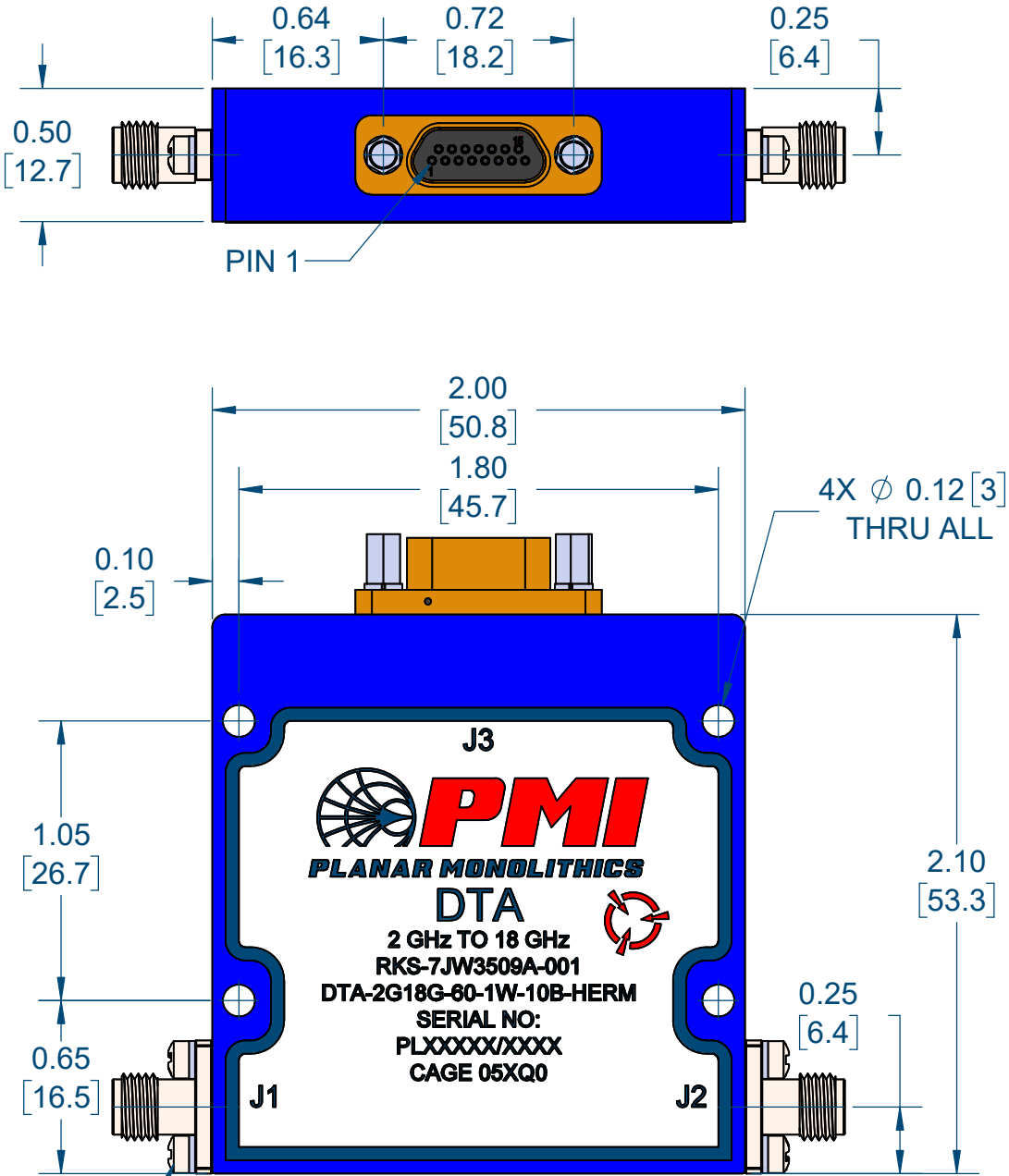
- TEMPERATURE: -54°C TO +85°C (OPERATING)
-57°C TO +95°C (STORAGE)
- HUMIDITY: DESIGNED TO OPERATE IN 100% RH ENVIRONMENT INCLUDING CONDENSATION PER MIL-HDBK-5400, 4.6.2.4
- SHOCK: DESIGNED TO SURVIVE AND OPERATE DURING SHOCK PER MIL-HDBK-5400, 4.6.2.6: 20G, 6-9 ms
- VIBRATION: DESIGNED TO SURVIVE AND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

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

J3: 15-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	2 dB
2	1 dB
3	0.5 dB
4	0.25 dB
5	GND
6	0.13 dB
7	0.06 dB (LSB)
8	GND
9	STAB
10	N/C
11	+VDC
12	32 dB (MSB)
13	16 dB
14	8 dB
15	4 dB



2X SMA-F
(FIELD REPLACEABLE)



PMI CONFIDENTIAL AND PROPRIETARY

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						APPROVALS		DATE						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: <table><thead><tr><th>FRACTIONS</th><th>DECIMALS</th><th>ANGLES</th></tr></thead><tbody><tr><td>±</td><td>.XX ± 0.02</td><td>±</td></tr><tr><td></td><td>.XXX ± 0.01</td><td></td></tr></tbody></table>			FRACTIONS	DECIMALS	ANGLES	±	.XX ± 0.02	±		.XXX ± 0.01		DRAWN D. HOSCHAR	6/19/2026	
			FRACTIONS	DECIMALS	ANGLES									
±	.XX ± 0.02	±												
	.XXX ± 0.01													
			REDRAWN	TITLE										
			ISSUED	OUTLINE										
			SIZE	FSCM NO.	DWG NO.									
			B	05XQ0	27055300									
			SCALE 1.5:1		REV. A1									
					SHEET 1 OF 1									