

DESCRIPTION

PMI MODEL DTA-2G18G-31D5-6-SMP-HERM IS A 6-BIT PROGRAMMABLE 31.5 dB DIGITAL ATTENUATOR OPERATING FROM 2.0 GHz TO 18.0 GHz WITH A STEP RESOLUTION AS LOW AS 0.5 dB. THIS MODEL IS FITTED WITH SMP FULL DETENT CONNECTORS.

SPECIFICATIONS

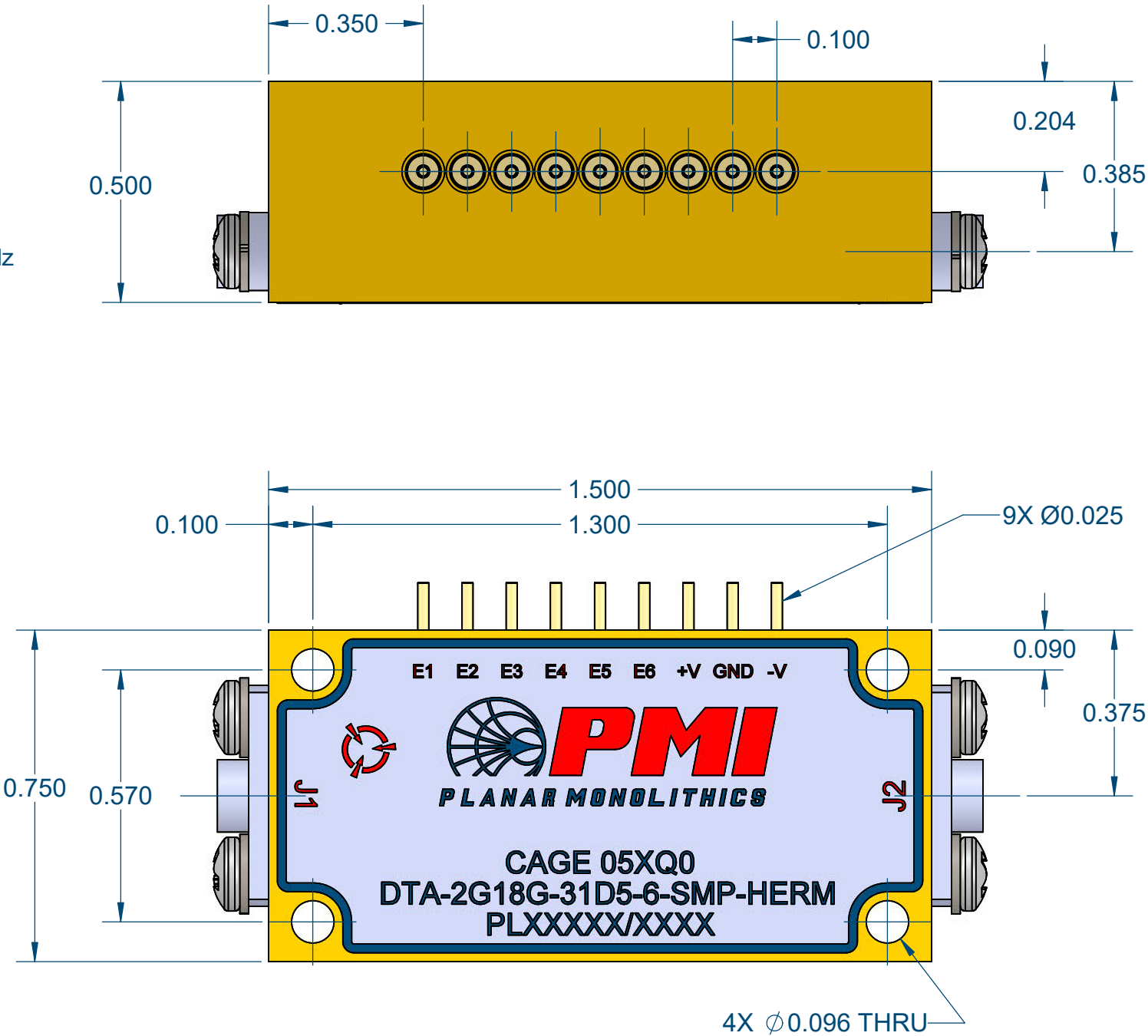
- FREQUENCY RANGE: 2 GHz TO 18 GHz
- INSERTION LOSS: 3 dB TYP
- ATTENUATION RANGE: 31.5 dB TYP
- ATTENUATION STEP SIZE: 0.5 dB TYP
- ATTENUATION ACCURACY: ±(0.10 + 0.6% OF STATE) FROM 2GHz TO 10GHz
±(0.10 + 1.0% OF STATE) FROM 10 GHz TO 18 GHz
- RETURN LOSS: 20 dB TYP (FROM 2GHz TO 10GHz)
19 dB TYP (FROM 10GHz TO 18GHz)
- RISE/FALL TIME: 35 ns TYP
- ON/OFF TIME: 125 ns TYP
- P0.1DB: 30 dBm TYP (INSERTION LOSS STATE)
27 dBm TYP (OTHER ATTENUATION STATES)
- POWER HANDLING: 27 dBm CW MAX
30 dBm PEAK MAX
24 dBm CW MAX (HOT SWITCHING)
27 dBm PEAK MAX (HOT SWITCHING)
- POWER SUPPLY: +5 V AND -5 V @ 50 mA TYP
- CONNECTORS: RF: SMP MALE (FULL DETENT)
POWER AND CONTROL: PINS
- CONTROL LOGIC: TTL LOGIC "0" (BIT ON): 0 TO 0.8 V
TTL LOGIC "1" (BIT OFF): 2 TO 5 V
- FINISH: GOLD PLATED
- SEALING: HERMETIC

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. B
- VIBRATION: MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 COND. A

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	07/22/2026	
	2	REVISION	07/28/2026	



PMI CONFIDENTIAL AND PROPRIETARY

					 PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
			APPROVALS	DATE	TITLE PRODUCT FEATURE DTA-100M40G-31D5-6-292FF-HERM			
DRAWN A. SABADOS			07/22/2026					
REDRAWN								
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.		
			B	05XQ0	PRELIMINARY	2		
			SCALE 2:1			SHEET 1 OF 1		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01					 PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED				
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