

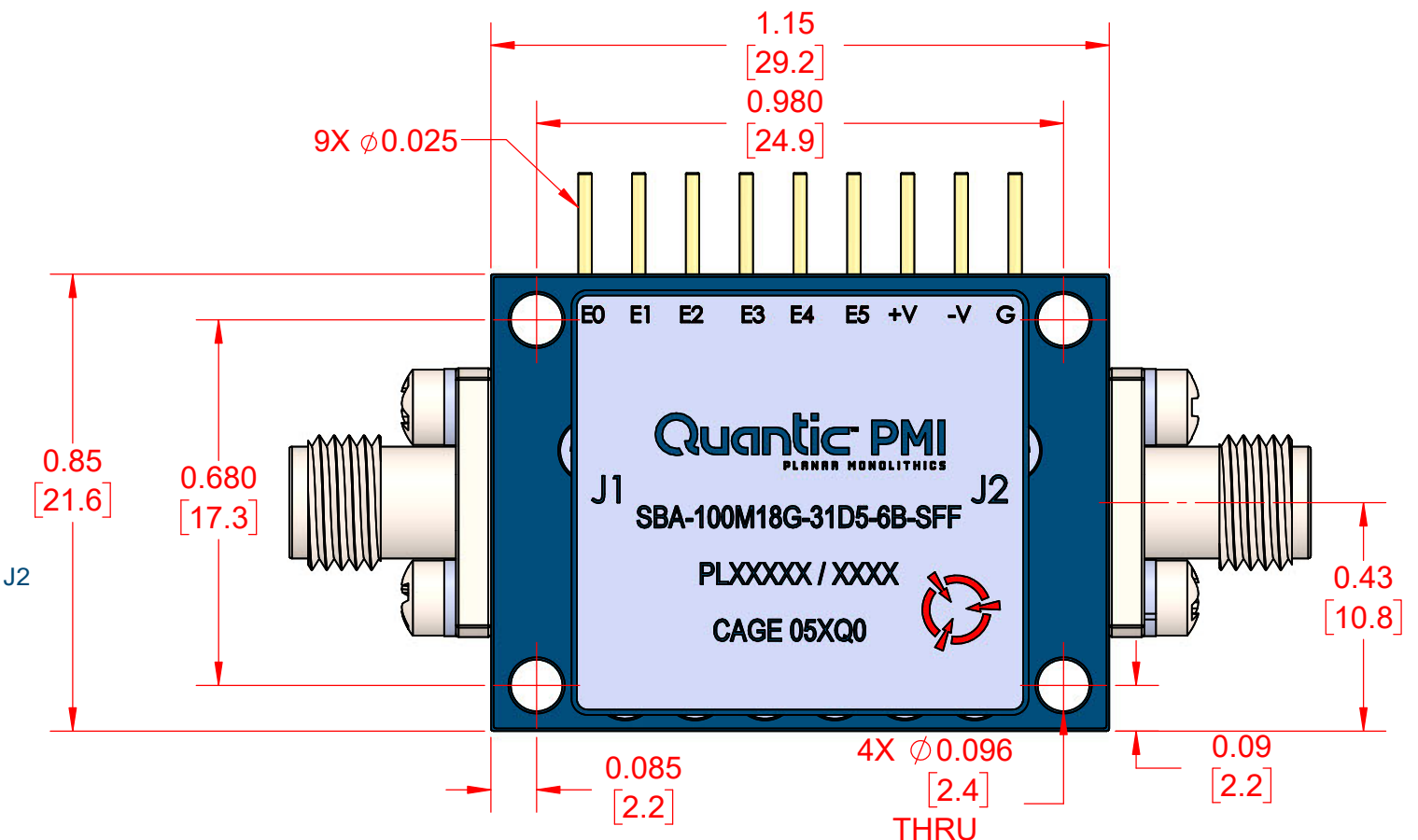
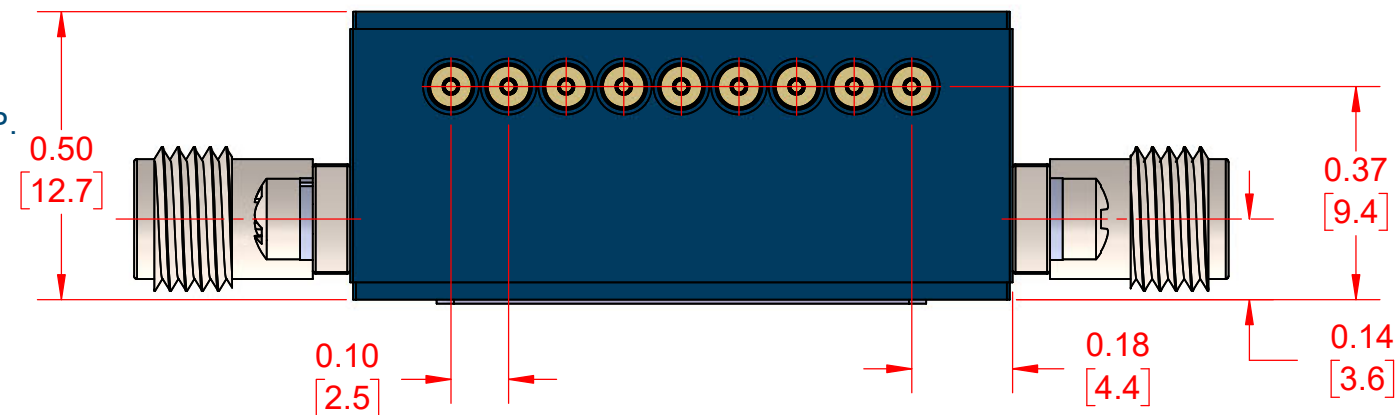
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/31/2023	
	A2	ECN #23-0182	9/28/23	

**DESCRIPTION:**

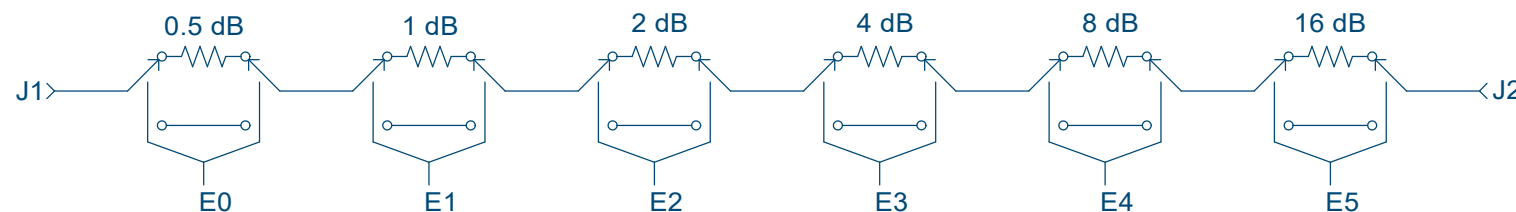
PMI MODEL NUMBER SBA-100M18G-31D5-6B-SFF IS A SWITCHED BIT ATTENUATOR OPERATING FROM 0.1 TO 18 GHz DESIGNED TO BE SWITCHED BETWEEN A LOW LOSS STATE AND 31.5 dB IN 0.5 dB STEPS. THE SETTINGS ARE SELECTED BY 6 INDEPENDENT BIT CONTROLS.

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 0.1 TO 18 GHz
- INSERTION LOSS:..... 6.0 dB MAX @ 25°C, 6.5 dB MAX OVER TEMP.
- ATTENUATION RANGE (OVER IL):..... 0 TO 31.5 dB
- STEP SIZE:..... 0.5 dB
- SWITCHING SPEED:..... 100 ns MAX
- VSWR (IN/OUT):..... 2.0:1 MAX
- MAX RF INPUT POWER:..... +20 dBm CW (OPERATING)  
+27 dBm CW (SURVIVAL)
- DC VOLTAGE:..... +5 VDC ±5% @ 100 mA MAX  
-5 VDC ±5% @ 100 mA MAX
- TTL CONTROL:..... 6 BITS  
"1=INSERTION LOSS"  
"0=ATTENUATION"
- RF CONNECTORS:..... SMA (F) REMOVABLE
- SIZE:..... 1.15" X 0.85" X 0.5"
- FINISH:..... PAINTED BLUE



**BLOCK DIAGRAM**



**ENVIROMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPWRATING)  
-55°C TO +125°C (STORAGE)

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

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS DATE DRAWN S AZHAR 5/31/2023 REDRAWN ISSUED		TITLE OUTLINE SBA-100M18G-31D5-6B-SFF	
		SIZE B FSCM NO. 05XQ0 DWG NO. 27046720 SCALE 3:1	REV. A2 SHEET 1 OF 1		

**Quantic PMI**  
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