

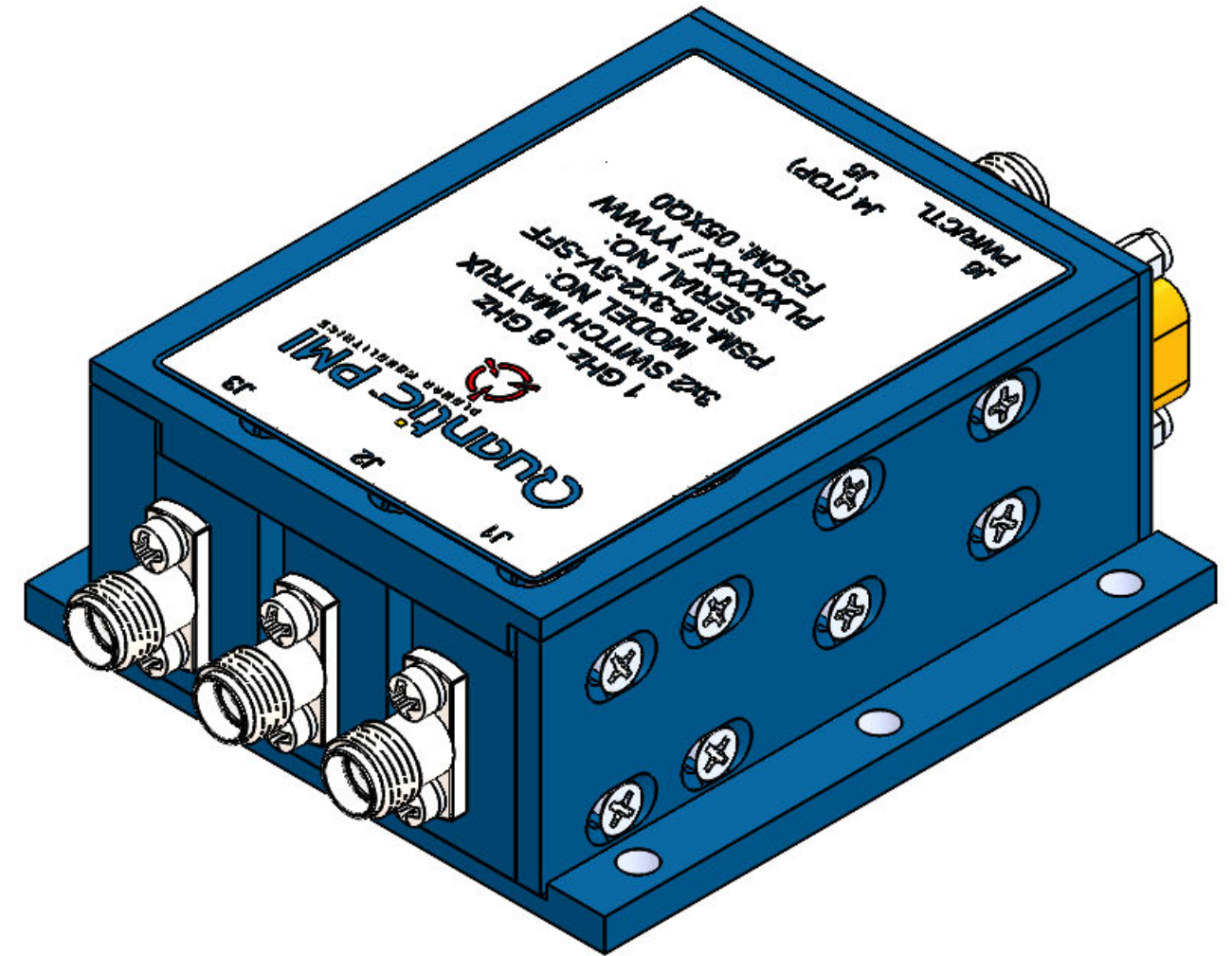
DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PSM-16-3X2-5V-SFF IS A 1 TO 6 GHz SWITCH MATRIX WITH 3 PORTS ABLE TO BE SWITCHED TO ANY OF 2 OTHER PORTS IN A NON-BLOCKING CONFIGURATION. THIS SOLID STATE SWITCH MATRIX HAS HIGH ISOLATION SWITCHES ON THE 2 PORTS ALLOWING ONE OF THE OTHER 3 PORTS THROUGH AT A TIME.

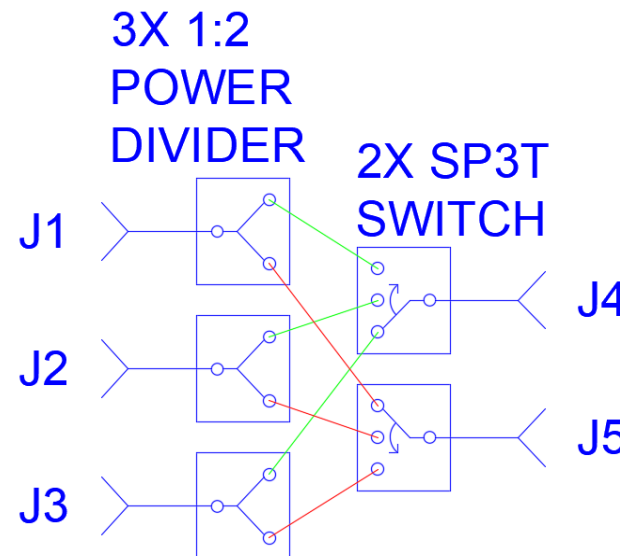
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	7/10/2023	
	2	UPDATED OPERATING INPUT POWER	7/26/2023	
	3	REDUCED HEIGHT	7/31/2023	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 1.0 TO 6.0 GHz
- INSERTION LOSS:..... 6 dB MAX
- AMPLITUDE BALANCE:..... ±2 dB MAX BETWEEN J4 AND J5
- RETURN LOSS:..... 12 dB MIN
- ISOLATION:..... 60 dB MIN (J4 AND J5 ROUTED TO DIFFERENT PORTS J1 - J3)
60 dB MIN (BETWEEN J1, J2, J3 IN ANY J4, J5 CONFIGURATION)
20 dB MIN (J4 AND J5 ROUTED TO SAME PORT J1 - J3)
- SWITCHING SPEED:..... 1 us MAX
- OPERATING INPUT POWER:..... +12 dBm CW MAX AT ANY PORT
- SURVIVAL INPUT POWER:..... +23 dBm CW MAX AT ANY PORT
- LOGIC CONTROL:..... PARALLEL TTL BITS, SEE J6 PIN-OUT TABLE
0' = 0 V TO 0.8 V, '1' = +2.7 V TO +5 V
- RF CONNECTORS:..... SMA FEMALE
- RF INTERCONNECTS:..... SMP FEMALE TO FEMALE BULLETS
- DC POWER SUPPLY:..... +5V DC @ 400 mA MAX
- ABSOLUTE MAX DC SUPPLY:..... +6V DC
- SIZE:..... 2.25" x 2.38" x 1.00"
- FINISH:..... PAINTED BLUE



J6 POWER / CONTROL CONNECTOR PIN-OUT				
PIN	NAME	DESCRIPTION	FUNCTION	
1	J4-CTL1	J1-J4 PATH	'0' ON, '1' OFF	
2	J4-CTL2	J2-J4 PATH	'0' ON, '1' OFF	
3	J4-CTL3	J3-J4 PATH	'0' ON, '1' OFF	
4	GND	GROUND		
5	J5-CTL1	J1-J5 PATH	'0' ON, '1' OFF	
6	J5-CTL2	J2-J5 PATH	'0' ON, '1' OFF	
7	J5-CTL3	J3-J5 PATH	'0' ON, '1' OFF	
8	GND	GROUND		
9	+5V	DC POWER SUPPLY		



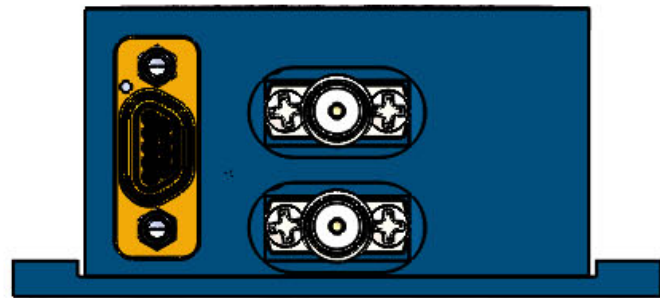
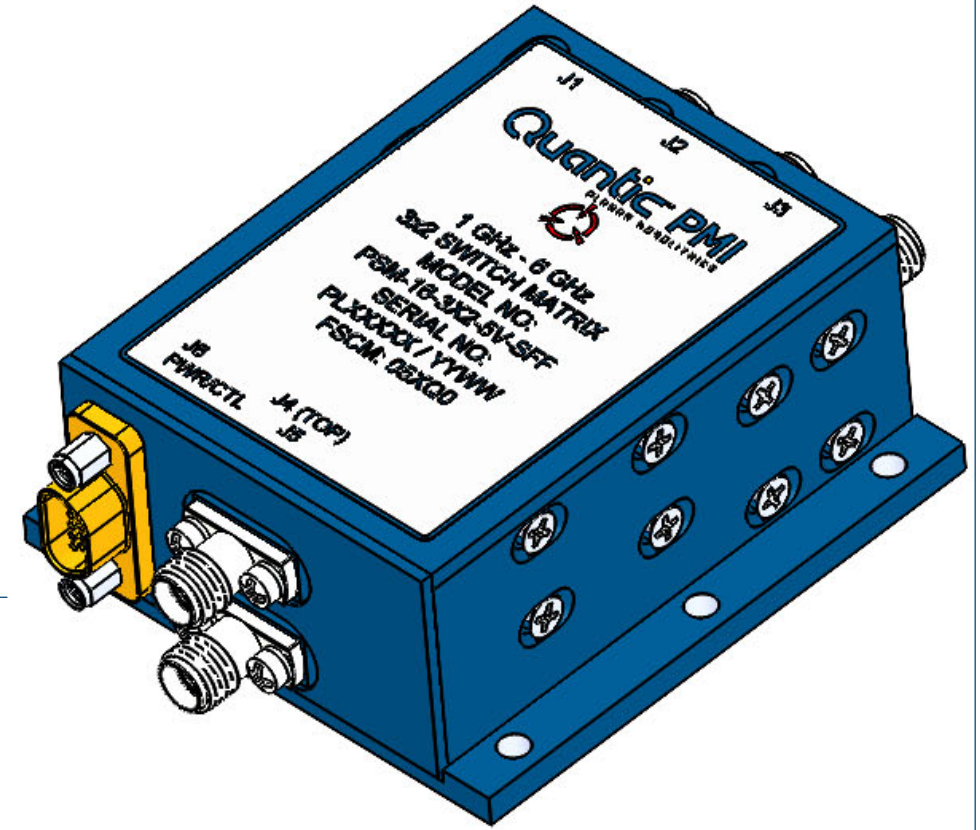
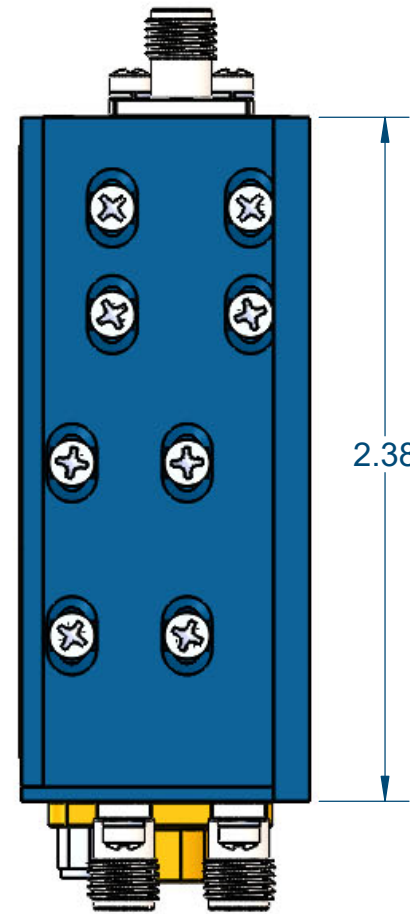
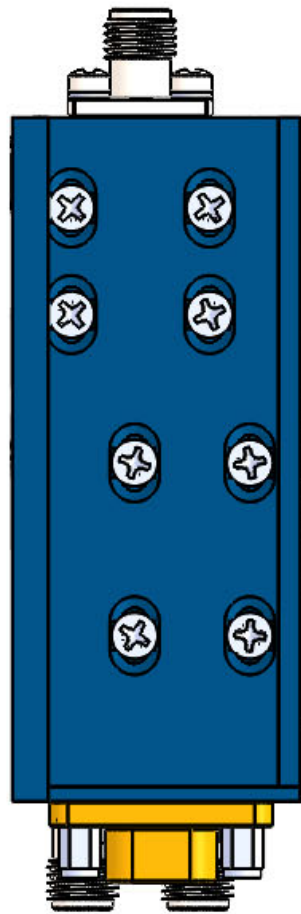
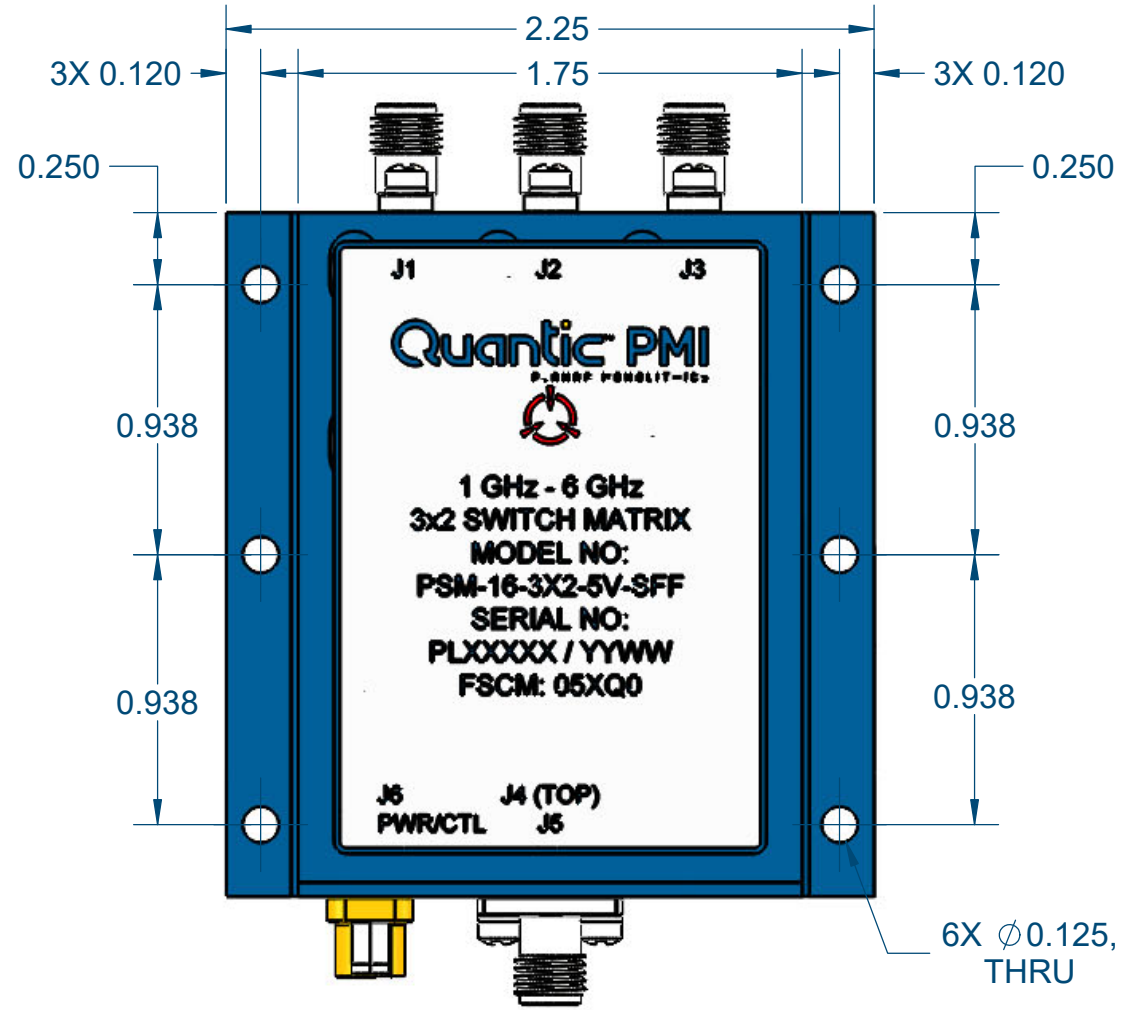
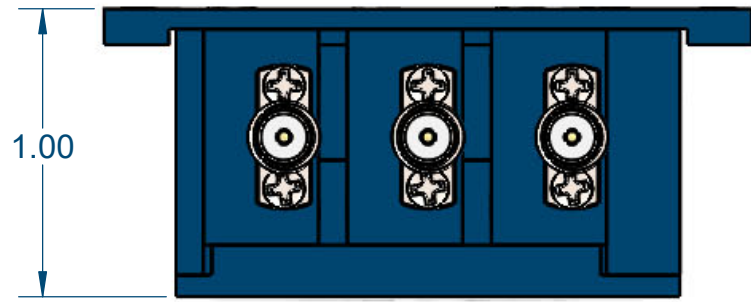
ENVIRONMENTAL RATINGS:

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

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

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS	DATE	Quantic PMI 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		
		DRAWN D. DURBIN REDRAWN	7/10/2023			
ISSUED		SIZE	FSCM NO.	DWG NO.	REV.	
		B	05XQ0	PRELIMINARY	3	
		SCALE 2:1			SHEET 1 OF 2	



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Quantic PMI
PLANAR MONOLITHICS

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APPROVALS	DATE
DRAWN D. DURBIN	7/10/2023
REDRAWN	
ISSUED	

TITLE			
PRODUCT FEATURE			
PSM-16-3X2-5V-SFF			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	PRELIMINARY	3
SCALE 1.5:1			SHEET 2 OF 2

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