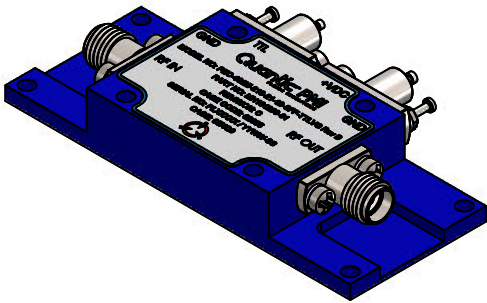


DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PEC-40/25-218-21-12-SFF-TTLVG IS A DUAL GAIN AMPLIFIER THAT OPERATES BETWEEN THE FREQUENCY RANGE 2 TO 18GHz.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/27/2012	
	A6	ECN # 22-0156	6/09/20	
	J2	ECN #24-0215	7/31/2024	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
 - GAIN @ -25°C
MAX GAIN POSITION:..... +42dB ±2dB MAX
MIN GAIN POSITION:..... +27dB ±2dB MAX
 - GAIN @ +25°C
MAX GAIN POSITION:..... +40dB ±2dB MAX
MIN GAIN POSITION:..... +25dB ±2dB MAX
 - GAIN @ +75°C
MAX GAIN POSITION:..... +37dB ±2dB MAX
MIN GAIN POSITION:..... +22dB ±2dB MAX
 - Pout @ 1dB COMPRESSION @ -25°C
MAX GAIN POSITION:..... +21dB MIN
MIN GAIN POSITION:..... +20dB MIN
 - Pout @ 1dB COMPRESSION @ +25°C
MAX GAIN POSITION:..... +21dB MIN
MIN GAIN POSITION:..... +20dB MIN
 - Pout @ 1dB COMPRESSION @ +75°C
MAX GAIN POSITION:..... +20dB MIN
MIN GAIN POSITION:..... +20dB MIN
 - SATURATED OUTPUT POWER (BOTH GAINS)
OVER OPERATING TEMP RANGE:..... +26dBm MAX
 - NOISE @ -25°C
MAX GAIN POSITION:..... +3.8dB MAX
MIN GAIN POSITION:..... +6.0dB MAX
 - NOISE @ +25°C
MAX GAIN POSITION:..... +4.5dB MAX
MIN GAIN POSITION:..... +7.0dB MAX
 - NOISE @ +75°C
MAX GAIN POSITION:..... +5.0dB MAX
MIN GAIN POSITION:..... +8.0dB MAX
- VSWR IN/OUT:..... 2.0:1 MAX
 - INPUT/OUTPUT IMPEADANCE:..... 50Ω NOMINAL
 - INPUT POWER (WITHOUT DAMAGE):..... +20dBm CW MAX
 - IN-BAND HARMONICS @ OR BELOW
THE 1dB COMPRESSION POINT:..... -10dBc MIN
 - SPURIOUS OUTPUT SIGNAL @
ANY SIGNAL LEVEL UP TO THE
MAX INPUT LEVEL:..... -80dBc MAX
 - PULSE RISE TIME WITH INPUT SIGNALS
UP TO 20dBm:..... <5ns
 - PULSE OVERSHOOT WITH INPUT SIGNALS
UP TO 20dBm:..... <0.5dB
 - PULSE DROOP WITH THE FOLLOWING
PULSES UP TO 250u IN DURATION
INPUT SIGNAL UP TO -20dBm:..... <2.0dB
 - PULSE RECOVERY TIME WITH THE FOLLOWING
PULSES UP TO 250u IN DURATION
INPUT SIGNAL UP TO -20dBm:..... 15ns
 - GAIN SWITCHING TIME:..... <500ns
 - GAIN SWITCHING CONTROL::..... TTL HIGH "1" - MAX GAIN
TTL HIGH "0" - MIN GAIN
 - DC SUPPLY:..... 780mA MAX @ +12V ±5% MAX GAIN POSITION
610mA MAX @ +12V ±5% MIN GAIN POSITION
 - FINISH:..... PAINTED BLUE (MOUNTING SURFACE FREE OF PAINT, GOLD)



ENVIRONMENTAL RATINGS:

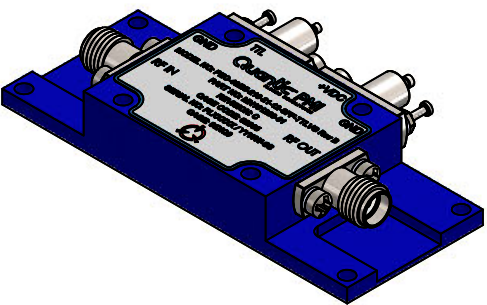
- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE

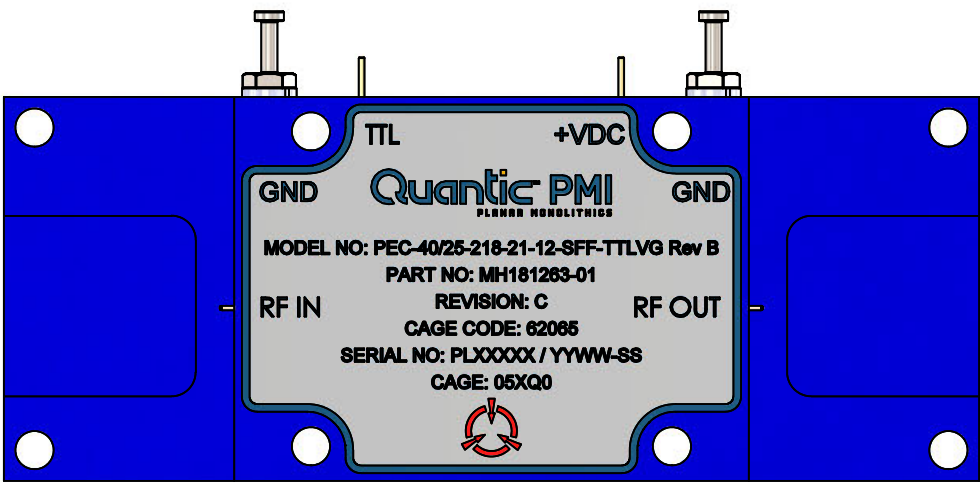
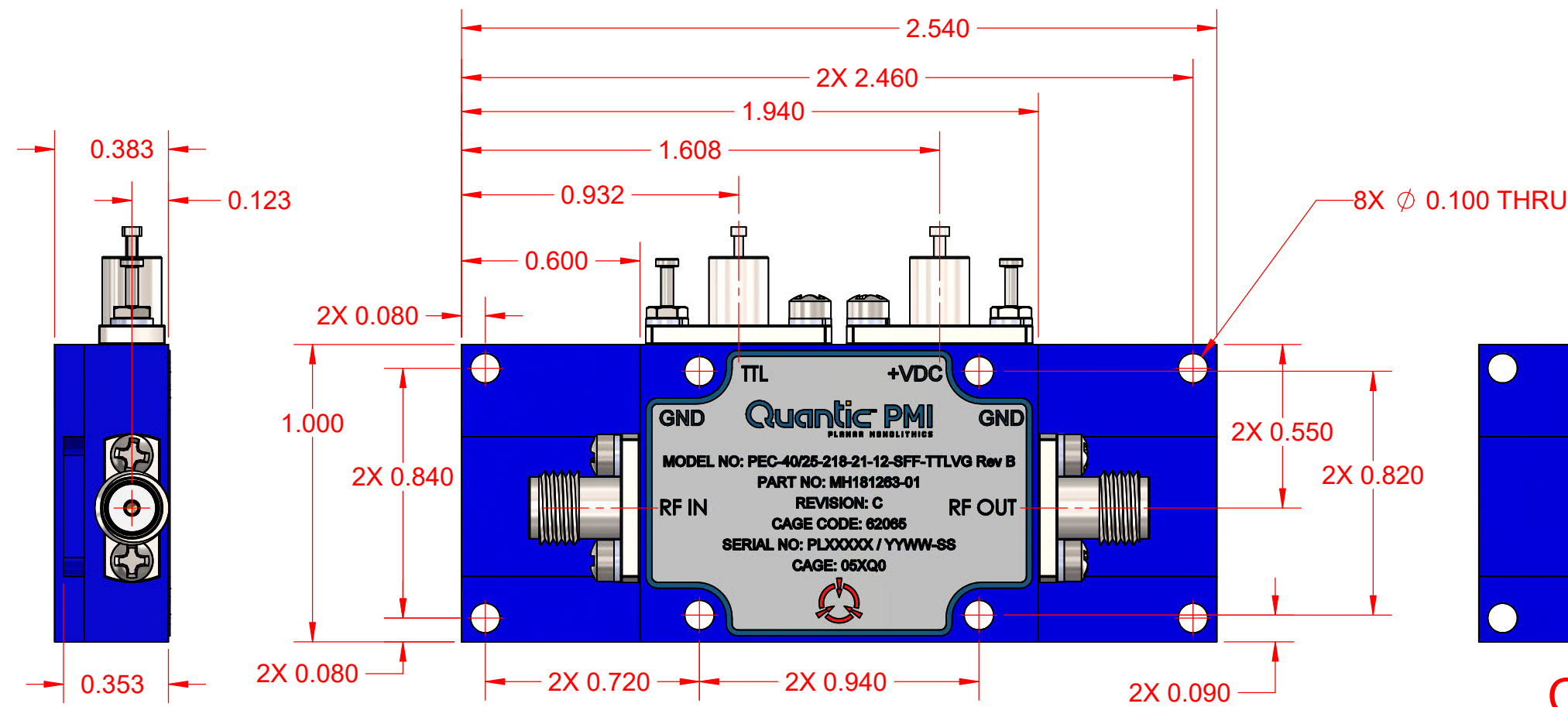
PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01					Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM ISO 9001 CERTIFIED									
			APPROVALS		DATE		TITLE OUTLINE PEC-40/25-218-21-12-SFF-TTLVG RevB							
			DRAWN M. HANKEN		6/27/2012									
			REDRAWN				SIZE				FSCM NO.		DWG NO.	
			ISSUED				B		05XQ0		27005731		J2	
							SCALE 1:1						SHEET 1 OF 2	

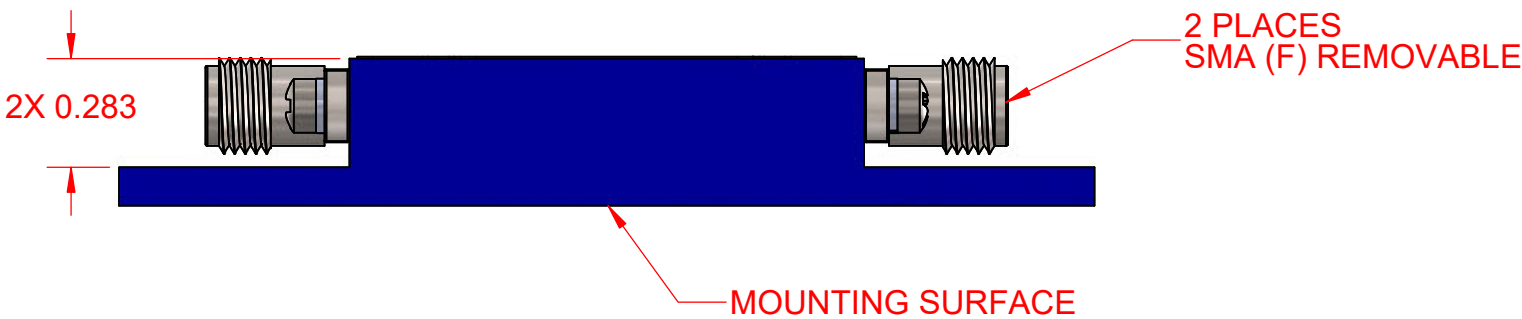
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MECHANICAL OUTLINE



CONNECTORS REMOVED



NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE

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APPROVALS		DATE	Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM ISO 9001 CERTIFIED			
DRAWN M. HANKEN		6/27/2012	TITLE OUTLINE			
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ISSUED			SIZE B	FSCM NO. 05XQ0	DWG NO. 27005731	REV. J2
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01			SCALE 1:1		SHEET 2 OF 2	