

DESCRIPTION

PMI MODEL PEC-40/25-218-21-12-SFF-TTLVG IS A DUAL GAIN AMPLIFIER THAT OPERATES BETWEEN THE FREQUENCY RANGE 2 - 18GHz.

SPECIFICATIONS

- FREQUENCY RANGE:..... 2 - 18GHz
- GAIN @ -25°C
MAX GAIN POSITION:..... +42dB $\pm$ 2dB Max
MIN GAIN POSITION:..... +27dB $\pm$ 2dB Max
- GAIN @ +25°C
MAX GAIN POSITION:..... +40dB $\pm$ 2dB Max
MIN GAIN POSITION:..... +25dB $\pm$ 2dB Max
- GAIN @ +75°C
MAX GAIN POSITION:..... +37dB $\pm$ 2dB Max
MIN GAIN POSITION:..... +22dB $\pm$ 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

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 OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:
X.XX $\pm$ 0.020
X.XXX $\pm$ 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	06/27/12	
	A2	ECN # 13-0177	10/07/13	
	A3	ECN # 14-0198	12/04/14	

- VSWR IN/OUT:..... 2.0:1 MAX
- INPUT/OUTPUT IMPEDANCE:..... 50 Ω 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 250 μ IN DURATION
INPUT SIGNAL UP TO -20dBm:..... <2.0dB
- PULSE RECOVERY TIME WITH THE FOLLOWING
PULSES UP TO 250 μ IN DURATION
INPUT SIGNAL UP TO -20dBm:..... 15ns
- GAIN SWITCHING TIME:..... <500ns
- GAIN SWITCH CONTROL:..... TTL HIGH "1" - Max GAIN
TTL LOW "0" - Min GAIN
- DC SUPPLY:..... 780mA Max@ +12V $\pm$ 5% Max GAIN POSITION
610mA Max@ +12V $\pm$ 5% Min GAIN POSITION

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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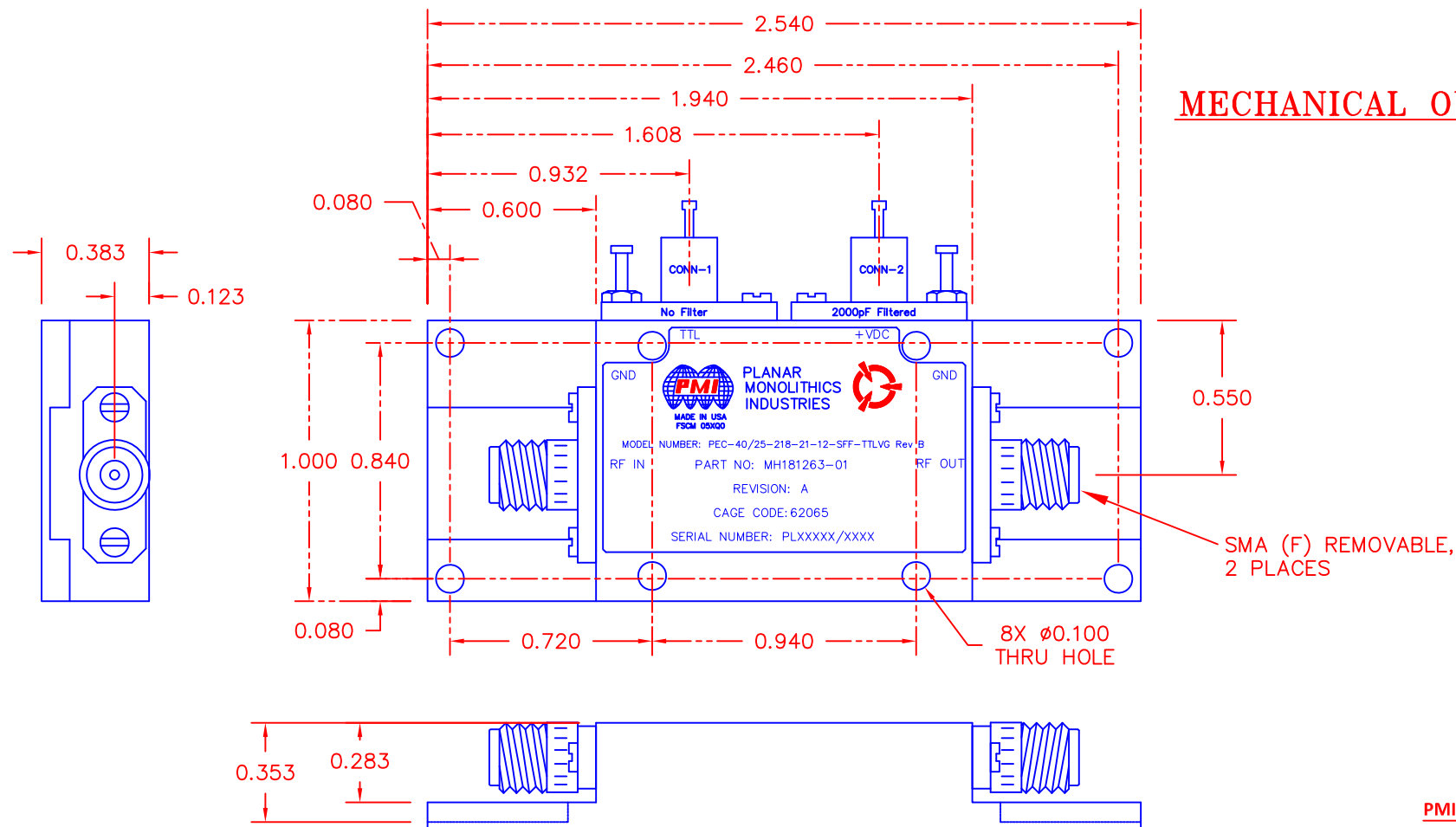


APPROVALS		DATE		TITLE			
DRAWN	<i>afk</i>		06/27/12	PRODUCT FEATURE			
CHECKED				PEC-40/25-218-21-12-SFF-TTLVG			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27005731	A3
				SCALE	N: S	SHEET	1 OF 2

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