

DESCRIPTION

PMI MODEL PEC-40-25-0R518-20-12-SFF-TTLVG IS A DUAL GAIN AMPLIFIER THAT OPERATES BETWEEN THE FREQUENCY RANGE 0.5 - 18GHz.

SPECIFICATIONS

- FREQUENCY RANGE:..... 0.5 - 18GHz
- GAIN @ +25°C
 - MAX GAIN POSITION:..... +38dB ±4dB Max
 - MIN GAIN POSITION:..... +23dB ±4dB Max
- Pout @ 1dB COMPRESSION @ +25°C
 - MAX GAIN POSITION:..... +19dB Min
 - MIN GAIN POSITION:..... +17dB Min
- SATURATED OUTPUT POWER (BOTH GAINS)
OVER OPERATING TEMP RANGE:..... +25dBm Typ
- NOISE @ +25°C
 - MAX GAIN POSITION:..... +5.0dB Max *Above 1GHz
 - MIN GAIN POSITION:..... +7.5dB Max *Above 1GHz
- VSWR IN/OUT:..... 2.0:1 MAX
- INPUT/OUTPUT IMPEDANCE:..... 50Ω NOMINAL
- INPUT POWER (WITHOUT DAMAGE):..... +20dBm CW Max
- IN-BAND HARMONICS @ OR BELOW
 - THE 1dB COMPRESSION POINT:..... -10dBc Typ.
- 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 SWITCH CONTROL:..... TTL HIGH "1" - Max GAIN
TTL LOW "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 PLATED)
- SEALING:..... EPOXY SEALED (HERMETIC UPON REQUEST AND ADDITIONAL COST)

PMI CONFIDENTIAL AND PROPRIETARY

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 ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	11/09/2018	

PLANAR MONOLITHICS INDUSTRIES, INC.

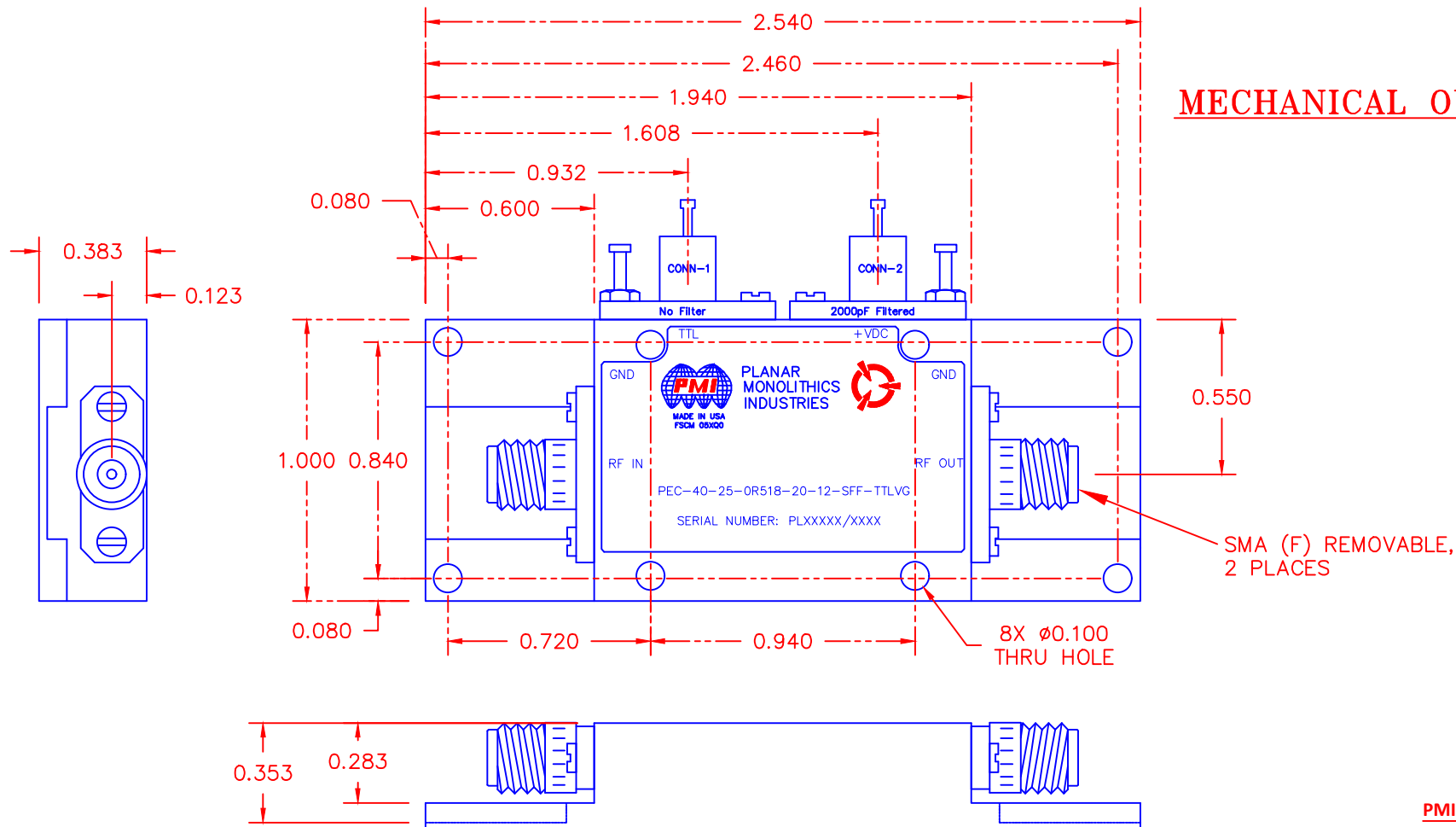
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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN		GJR	PRODUCT FEATURE			
CHECKED			PEC-40-25-0R518-20-12-SFF-TTLVG			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27035881	A1
SCALE N: S			SHEET			1 OF 2

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