

Description:

Model Number PEC-7-2G18G-6R0-17-SFF-RISO70DB is a 2.0 to 18.0 GHz Low Gain Amplifier with High Reverse Isolation to be used as an active isolator. This amplifier has a gain of 7dB and an OP1dB of +17dBm. This amplifier has an input power range of -70 to +5dBm. With +5dBm input, the design is such that all internal gain stages are at least 5dB below 1dB compression points for good linear performance. The typical reverse isolation is 80dB and 70dB minimum.

Specifications:

Frequency:.....2.0 GHz TO 18.0GHz
 Gain:..... 7 dB Nominal
 Gain Flatness:..... ±2.0 dB Typical
 Noise Figure:..... 7.2dB Typical at 2 GHz
 6.0dB Typical at 4 TO 18 GHz
 Operational Input Power:..-70 to +5 dBm
 Survival Input Power:.....+20dBm CW Maximum
 Reverse Isolation-70dB Minimum, -80dB Typical
 OP1dB:..... +17dBm Minimum
 VSWR In/Out:..... 2.0:1 Maximum
 Connectors:..... SMA(F)
 DC Supply:..... 800mA @ +12VDC Typical
 Finish:..... Painted Blue (Mounting Surface Unpainted)

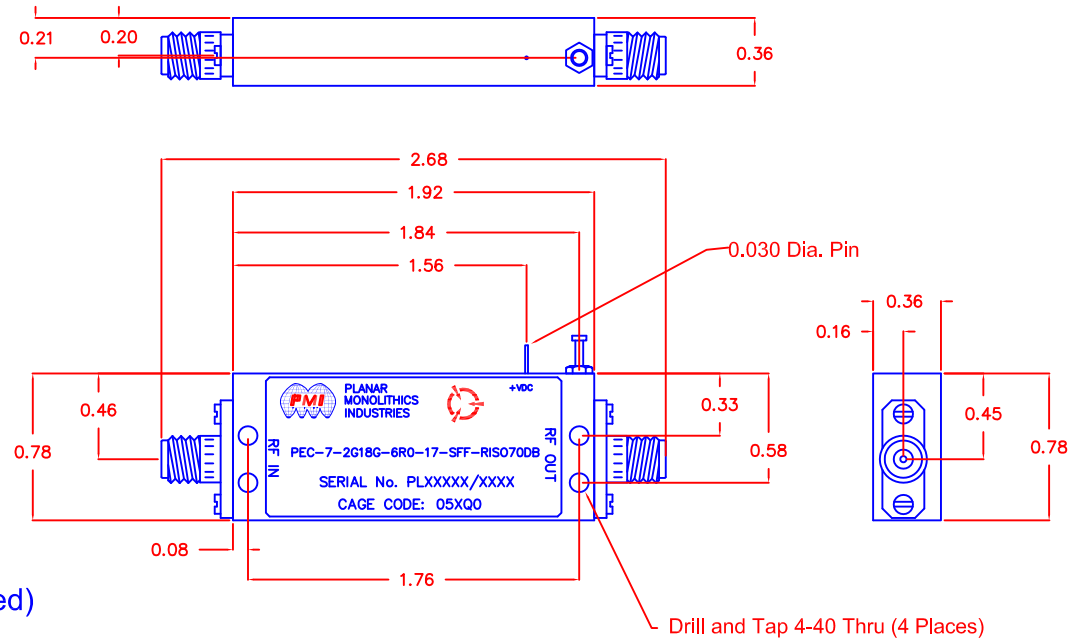
Environmental Ratings:

Temperature:-40°C to +60° C (Operating)
 -55°C +125°C (Storage)
 Humidity: MIL-STD-202F, METHOD 103B COND B.
 Shock: MIL-STD-202F, METHOD 213B COND B.
 Altitude: MIL-STD-202F, METHOD 105C COND B.
 Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY (-QF)	4/22/15	KM

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.010

APPROVALS		DATE	TITLE		
DRAWN <i>K. MASON</i>		4/22/15	PRODUCT FEATURE PEC-7-2G18G-6R0-17-SFF-RISO70DB		
CHECKED			2.0 GHz TO 18.0 GHz ACTIVE ISOLATOR (AMPLIFIER)		
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
			SCALE N:S	SHEET 1 OF 2	