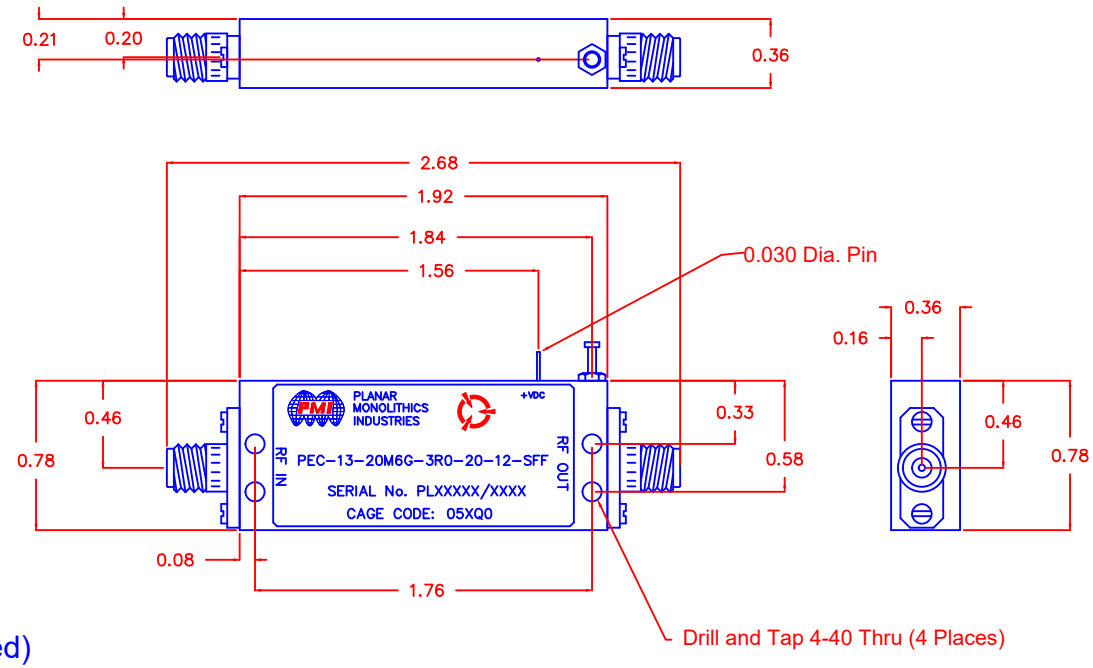
Description:

Model Number PEC-13-20M6G-3R0-20-12-SFF is a 20MHz to 6.0GHz low noise amplifier. This amplifier has a gain of 13dB with +/-1.5 dB flatness, OP1dB of +20dBm typical and a Noise Figure of 3dB.

This model provides the following performance.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	PRELIMINARY (–QF)	2/20/15	
	1	PRELIMINARY RELEASE	3/6/26	

MECHANICAL OUTLINE



Specifications:

Frequency:..... 20MHz to 6.0GHz
Gain:..... 13dB Typical
Gain Flatness:..... ±1.5dB Typical
Noise Figure:
.....4.0dB Typical at 20MHz
.....2.0dB Typical at 500MHz
.....2.5dB Typical at 2GHz
.....3.8dB Typical at 6GHz
OP1dB:..... +20dBm Minimum
VSWR In/Out:..... 2.0:1 Typical
Input Power:..... +15dBm CW Maximum
Connectors:..... SMA(F)
DC Supply:..... 120mA @ +12 to +15VDC Nominal
Finish:..... Painted Blue (Mounting Surface Unpainted)

Environmental Ratings:

Temperature: ..... -40°C to +85° C (Operating)
-50°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.

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

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN K. MASON	2/20/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
PEC–13–20M6G–3R0–20–12–SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	1

SCALE N:S SHEET 1 OF 1