Planar Monolithics Industries, Inc.

2.0 to 4.0GHz, 30dB Gain, 1.5dB Noise Figure
Solid State Low Noise Amplifier

TECHNICAL Datasheet

PMI Model No. PEC-30-2R04R0-1R5-218-V-SFF-HS is a 2.0 to 4.0GHz, low noise amplifier designed for military and industrial applications. This amplifier is supplied in our EMI shielded, hermetically sealed housing with SMA(F) connectors. It provides > 30dB of gain with a typical noise figure of 1.5dB and a minimum OP1dB of +21dB. This amplifier operates on +8VDC and has a maximum current draw of 380mA.

Features
- 2.0 to 4.0 GHz
- 1.5dB Noise Figure
- +21dB OP1dB
- 30dB Min. Gain
- VSWR 2.0:1 Max.
- 1.0dB Flatness

Applications
- EW Systems
- Radars
- UAVs & UGVs
- Communications
- Test Equipment
- Laboratories

Electrical Specifications
- Frequency Range: 2.0 to 4.0GHz
- Gain: 30dB min
- Gain Flatness: ±1.0dB max.
- Noise Figure: 1.5dB typ
- OP1dB: +21dB min
- Input Power: +12dBm CW max
- VSWR In/Out: 2.0:1 max.
- DC Supply (See Note): +7.8 to +8.2VDC @ 380mA max
- Size: 1.40” x 0.78” x 0.36” (Excluding connectors)
- Finish: Painted Blue

Environmental Ratings
- Temperature: -54°C to +85 °C Operating
- -55°C to +125°C Non-Operating

West Coast Operation:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 USA
Tel: 916-542-1401 Fax: 916-265-2597

ISO9001 REGISTERED
Web: www.pmi-rf.com Email: sales@pmi-rf.com

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7311-F Grove Road
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**TECHNICAL DATASHEET**

**PEC-30-2R04R0-1R5-8V-SFF-HS**

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**Small Signal Gain**

- Gain 33.1dB (avg)
- Flatness +/-0.56dB

**VSWR GRAPH**

- Input VSWR: 1.67:1 Max
- Output VSWR: 1.29:1 Max

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MECHANICAL OUTLINE

Ground Lug 0.125 Dia., 0.23" Length Max.
0.030 Dia. Pin
EMI Filtered Feedthru

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