2.0 to 18.0 GHz, 36dB Gain
Medium Power, Low Noise Amplifier

TECHNICAL Datasheet

PEC-36-2G18G-4R5-27-15-SFF

PMI Model No. PEC-36-2G18G-4R5-27-15-SFF is a 2.0 to 18.0GHz, Medium Power, Low Noise Amplifier offering 36dB gain and an OP1dB of +27dBm with a low noise figure of 4.5dB. This amplifier is supplied in a housing measuring 1.0” x 0.63” x 0.25” with SMA(F) connectors and operates on a single +15VDC supply.

Features
- 2.0 to 18.0GHz
- 36dB Typical Gain
- ±1.5dB Typical Gain Flatness
- 4.5dB Typical Noise Figure
- 2.0:1 Maximum VSWR
- 27.5dBm Typical OP1dB

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

Electrical Specifications
- Frequency Range: 2.0 to 18.0GHz
- Gain: 36dB typ
- Gain Flatness: ±1.5dB typ
- Noise Figure: 4.5dB typ, 5.0dB max
- OP1dB: +26.5dBm min, +27.5dBm typ
- VSWR In/Out: 2.0:1 max
- Impedance: +20dBm CW max
- DC Voltage Supply: +15VDC
- DC Current Draw: 850mA nominal
- Connectors In/Out: SMA(F)
- Finish: Gold Plated

Environmental Ratings
- Temperature: -55°C to +85 °C Operating
  -65°C to +125 °C Non-Operating
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Small Signal Gain

Gain 35.7dB (avg)
Flatness +/-1.60dB

Noise Figure vs Frequency

Measured NF

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

East Coast Operation:
7311-F Grove Road
Frederick, MD 21704 USA
Tel: 301-662-5019 Fax: 301-662-1731

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TECHNICAL DATASHEET

PEC-36-2G18G-4R5-27-15-SFF

MECHANICAL OUTLINE

Solder Pins (2 Places)

Removable SMA(F) (2 Places)

Tapped 2-56 Mounting Holes 0.15 Deep Min. (4 Places)