Planar Monolithics Industries, Inc.
Offering State-Of-The-Art RF and Microwave Components
& Integrated Assemblies From DC to 40GHz

RF / MICROWAVE / MILLIMETER-WAVE AMPLIFIERS TO 40GHz

MODEL TYPES OFFERED:
- Narrow to Ultra-Broadband (2MHz - 40GHz)
- Low Noise Figure (<1.0dB)
- Variable Gain (Up to 80dB Dynamic Range)
  - Voltage Variable
  - TTL Variable
  - Ethernet / Digitally Variable
- Hard Limiting (+/-0.75dBm vs Frequency)
- Positive Gain Slope
- High Linearity
- Log RF/IF (Up to 80dB Dynamic Range)
  - Video Buffer - High Speed
    (Slew Rate 2000V/us & 3ns Video Rise Time)
- Ultra-High Gain (Up to 80dB)
- Connectorized, QFN & SMT Designs
- 19" Rack Mountable Designs
- USB Powered Models

AVAILABLE FEATURES & OPTIONS:
- Built To Your Specifications
- Internal Voltage Regulation
- Reverse Voltage Protection
- Temperature Compensation
- Single Supply Operation
- Hermetic Sealing

2.0 to 18GHz Ultra-Small LNA
Model No. PEAFS3-12-218-15-SFF-1
- 2.0 to 18.0GHz
- Gain 18dB
- Gain Flatness +/-1.3dB
- Noise Figure 3.8dB
- OP1dB +9dBm
- +15VDC, 180mA
- Temperature Compensated from -54C to +95C
  - +0.53" x 0.69" x 0.26"

500MHz to 40GHz Low Noise Amplifier
Model No. PEC-42-500M40G-20-12-292MM
- 500MHz to 40.0GHz
- Gain 42dB
- Gain Flatness +/-2.5dB
- Noise Figure 5.5dB
- OP1dB 22dBm
- Input Power +17dBm CW max
  - +12 to +15VDC, 450mA
  - 1.37" x 1.0" x 0.6"

6-18GHz Medium Power Amplifier
Model No. PEC-33-6G18G-7R0-31-SFF
- 6.0 to 18.0GHz
- Gain 32.5dB
- Noise Figure 7dB max
- OP1dB 30.5 +/-1.5dBm
- Harmonics -18dBc max
- Input Power +20dBm CW max
  - +12VDC, 1.25A
  - 2.62" x 1.28" x 0.42"

50MHz to 40GHz USB Powered Amplifier
Model No. AMP-12-50M40G-USB
- 50MHz to 40.0GHz (Other frequency ranges available)
- Gain 12dB
- Gain Flatness +/-2.5dB
- Noise Figure 4.5dB
- OP1dB +10dBm
- DC Power via USB 2.0
- RF Connectors 2.92mm Female
  - 2.25" x 1.0" x 0.38"

2-18GHz Limiting Amplifier
Model No. PEC2-2G19G-60-2DBM-LM-SFF
- 2.0 to 18.0GHz (Other frequency ranges available)
- Input Power Range -60 to +30dBm
- Limited Output Power +2dBm (Up to +26dBm Available)
- Output Power Flatness +/-2dB
- Harmonics -10dBc
  - +12 to +15VDC, 400mA
  - 2.98" x 0.78" x 0.36"

14.4-15.5GHz Limiter/LNA Integrated QFN
Model No. PSMT-0001
- 14.5 to 15.5GHz (Other frequency ranges available)
- Gain 16.5dB
- Noise Figure 2.5dB
- OP1dB +10dBm min
- Input Power +30dBm CW max
- AC Coupled / DC Blocked
  - +3.5VDC, 100mA
  - 5mm x 5mm QFN 32/L

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

East Coast Operation:
7311-F Grove Road
Frederick, MD 21704 USA
Tel: 301-662-5019 Fax: 301-662-1731
Website: www.pmi-rf.com

Hermetic Sealing, High Reliability to MIL-Std-883, Small Quantity Requirements accepted.
We offer Custom Designs

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