New Products

- **1.0** PEC-30-2R04R0-1R5-21-8V-SFF-HS: 2.0 to 4.0GHz, 30dB Gain, Low Noise Amplifier
- **2.0** POB-16-48-22-LCA: 4.0 to 8.0GHz, 16dB Gain, Low Noise Amplifier
- **3.0** PTB-60-2040-5R0-10-115VAC-292-FF: 20.0 to 40.0GHz, 60dB Gain, Portable Amplifier
- **4.0** PTB-60-120-5R0-10-115-VAC-SFF Rev. B: 1.0 to 20.0GHz, 60dB Gain, Portable Amplifier
- **5.0** PTB-42-1G40G-12-292FF-DC12: 1.0 to 40.0GHz, 40dB Gain, Portable Amplifier
- **6.0** PTB-30-2040-5R0-10-115VAC-292FF: 20.0 to 40.0GHz, 30dB Gain, Portable Amplifier
- **7.0** PEC-36-2G18G-4R5-27-15-SFF: 2.0 to 18.0GHz, Medium Power, 36dB Gain, Low Noise Amplifier
- **8.0** PVVAN-2040-60-MP: 2.0 to 4.0GHz, Analog Controlled, 60dB Pin Diode Attenuator
- **9.0** PDVAN-4080-60-8: 4.0 to 8.0GHz, 8-Bit Programmable 60dB Pin Diode Attenuator
- **10.0** PVA-500M18G-60-SFF: 0.5 to 18.0GHz, 60dB Voltage Variable Attenuator
- **11.0** PDVAN-5010-60-8: 5.0 to 10.0GHz, 8-Bit Digital, 60dB Pin Diode Attenuator
- **12.0** DTA-17G22G-60-10D: 17.0 to 22.0GHz, 10-Bit Programmable, 60dB Pin Diode Attenuator
- **13.0** EQL-17D6G21D6G+1D78DB-292MF: 17.6 to 21.6GHz, Passive Amplitude Equalizer with +1.78dB Slope
- **15.0** EQL-17D6G21D6G-4DB-292MF: 17.6 to 21.6GHz, Passive Amplitude Equalizer with -4dB Slope
- **16.0** EQL-17D6G21D6G-6DB-292MF: 17.6 to 21.6GHz, Passive Amplitude Equalizer with
-6dB Slope
-8dB Slope
-10dB Slope
-12dB Slope
2.0 to 18.0GHz, High Power Limiter
8.5 to 11.0GHz, 8-Bit Digitally Controlled Phase Shifter
1.0 to 1.1GHz, 40 Watt, SP2T High Power, Reflective Switch
24.0 to 40.0GHz, SPST, High Speed Absorptive Switch
0.1 to 20.0GHz, SP16T Absorptive Switch
2.0 to 18.0GHz, SDLVA with a Log Range of -70 to +5dBm

Product Updates

- 27.0 SDLVA-2G6G-70-CD-1: 2.0 to 6.0GHz, SDLVA with a Dynamic Range of -65 to 5dBm
- 28.0 ATN-30-100M40G-USB: 0.1 to 40.0GHz, USB Controlled and Powered 30dB Variable Attenuator
- 29.0 P2T-500M20G-50-T-5-12-SFF-I: 0.5 to 20.0GHz, SP2T Terminated Switch

New Product Listings

1.0: 2.0 to 4.0GHz, 30dB Gain, Low Noise Amplifier

PMI Model No. PEC-30-2R04R0-1R5-21-8V-SFF-HS

PMI Model No. PEC-30-2R04R0-1R5-21-8V-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.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/PEC-30-2R04R0-1R5-21-8V-SFF-HS.htm

2.0: 4.0 to 8.0GHz, 16dB Gain, Low Noise Amplifier

PMI Model No. POB-16-48-22-LCA

PMI Model No. POB-16-48-22-LCA is a 4.0 to 8.0GHz Low Noise Amplifier which provides 16dB of gain while maintaining a gain flatness of ±1.0dB typically over the operating frequency. The noise figure is 3dB typical and offers a typical OP1dB of +22dBm. The amplifier requires +12 to +15VDC and the current draw is 225mA typical. The unit is supplied with SMA(F) connectors in our standard PE2 housing.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/POB-16-48-22-LCA.htm

3.0: 20.0 to 40.0GHz, 60dB Gain, Portable Amplifier

PMI Model No. PTB-60-2040-5R0-10-115VAC-292-FF

PMI Model No. PTB-60-2040-5R0-10-115VAC-292-FF is a portable amplifier that operates over the 20.0 to 40.0GHz frequency range. This model provides 60dB of typical gain with an OP1dB of +10dBm minimum. This amplifier features an on/off switch that is located on the front panel and operates on 120VAC.
4.0: **1.0 to 20.0GHz, 60dB Gain, Portable Amplifier**

![Portable Amplifier](image1)

**PMI Model No. PTB-60-120-5R0-10-115-VAC-SFF**

PMI Model No. PTB-60-120-5R0-10-115-VAC-SFF is a portable amplifier that operates over the 1.0 to 20.0GHz frequency range. This model provides 60dB of typical gain with an OP1dB of +10dB minimum. This amplifier features an On/Off switch that is located on the front panel and operates on 120VAC.

Please Click PMI Website Link, [http://www.pmi-rf.com/Products/amplifiers/PTB-60-120-5R0-10-115-VAC-SFF.htm](http://www.pmi-rf.com/Products/amplifiers/PTB-60-120-5R0-10-115-VAC-SFF.htm)

5.0: **1.0 to 40.0GHz, 40dB Gain, Portable Amplifier**

![Portable Amplifier](image2)

**PMI Model No. PTB-42-1G40G-12-292FF-DC12**

PMI Model No. PTB-42-1G40G-12-292FF-DC12 is a portable amplifier that operates over the 1.0 to 40.0GHz frequency range. This model provides 40dB of typical gain with an OP1dB of +22dBm typical (1-18GHz) and +18dBm typical (18-40GHz). This amplifier features an on / off switch that is located on the front panel. This amplifier can operate on either 120VAC or via an external +12VDC supply.

Please Click PMI Website Link, [http://www.pmi-rf.com/Products/amplifiers/PTB-42-1G40G-12-292FF-DC12.htm](http://www.pmi-rf.com/Products/amplifiers/PTB-42-1G40G-12-292FF-DC12.htm)

6.0: **20.0 to 40.0GHz, 30dB Gain, Portable Amplifier**
PMI Model No. PTB-30-2040-5R0-10-115VAC-292FF

PMI Model No. PTB-30-2040-5R0-10-115VAC-292FF is a portable amplifier that operates over the 20.0 to 40.0GHz, frequency range. This model provides 30dB of typical gain with an OP1dB of +10dBm minimum. This amplifier features an On/Off switch that is located on the front panel and operates on 120VAC.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/PTB-30-2040-5R0-10-115VAC-292FF.htm

7.0: 2.0 to 18.0GHz, Medium Power, 36dB Gain, Low Noise Amplifier

PMI Model No. 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.

Please Click PMI Website Link,

8.0: 2.0 to 4.0GHz, Analog Controlled, 60dB, Pin Diode Attenuator

PMI Model No. PVVAN-2040-60-MP
PMI Model PVVAN-2040-60-MP is an analog controlled 60dB PIN diode attenuator operating over the frequency range of 2.0 to 4.0GHz. This model switches in 115ns typical with an insertion loss of less than 2dB.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/attenuators/PVVAN-2040-60-MP.htm

9.0: 4.0 to 8.0GHz, 8-Bit Programmable 60dB Pin Diode Attenuator

PMI Model No. PDVAN-4080-60-8

PMI Model No. PDVAN-4080-60-8 is an 8-Bit programmable 60dB pin diode attenuator with step resolution as low as 0.25dB over the frequency range of 4.0 to 8.0GHz. This model switches in 80ns typical with an insertion loss of less than 2.5dB.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/attenuators/PDVAN-4080-60-8.htm

10.0: 0.5 to 18.0GHz, 60dB Voltage Variable Attenuator

PMI Model No. PVA-500M18G-60-SFF

PMI Model No. PVA-500M18G-60-SFF is a broadband voltage variable attenuator / modulator designed to operate over the full 0.5 to 18.0GHz frequency range with a rise and fall time of 1.8usec typical and 60dB of attenuation range.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/attenuators/PVA-500M18G-60-SFF.htm

11.0: 5.0 to 10.0GHz, 60dB 8-Bit Digitally Controlled, Pin Diode Attenuator
**PMI Model No. PDVAN-5010-60-8**

PMI Model No. PDVAN-5010-60-8 is an 8-Bit digitally controlled 60dB pin diode attenuator with step resolution as low as 0.25dB over the frequency range of 5.0 to 10.0GHz.

Please Click PMI Website Link,  
http://www.pmi-rf.com/Products/attenuators/PDVAN-5010-60-8.htm

**12.0: 17.0 to 22.0GHz, 10-Bit Programmable, 60dB Pin Diode Attenuator**

**PMI Model No. DTA-17G22G-60-10D**

PMI Model No. DTA-17G22G-60-10D is a non-reflective, 10-Bit programmable 60dB pin diode attenuator with step resolution as low as 0.06 over the frequency range of 17.0 to 22.0GHz. This model switches in 400ns typical and has less than 8dB insertion loss. This model is offered in a slim line housing measuring only 0.5" high and operates on a single +15VDC supply.

Please Click PMI Website Link,  
http://www.pmi-rf.com/Products/attenuators/DTA-17G22G-60-10D.htm

**13.0: 17.6 to 21.6GHz, Passive Amplitude Equalizer with a +1.78dB Slope**

**PMI Model No. EQL-17D6G21D6G+1D78DB-292MF**

PMI Model No. EQL-17D6G21D6G+1D78DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a +1.78dB slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,
PMI Model No. EQL-17D6G21D6G-2DB-292MF

PMI Model No. EQL-17D6G21D6G-2DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a -2db slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,

PMI Model No. EQL-17D6G21D6G-4DB-292MF

PMI Model No. EQL-17D6G21D6G-4DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a -4db slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,

PMI Model No. EQL-17D6G21D6G-6DB-292MF

PMI Model No. EQL-17D6G21D6G-6DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a -6db slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,
17.0 17.6 to 21.6GHz, Passive Amplitude Equalizer with a -8dB Slope

PMI Model No. EQL-17D6G21D6G-8DB-292MF

PMI Model No. EQL-17D6G21D6G-8DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a -8dB slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,

18.0: 17.6 to 21.6GHz, Passive Amplitude Equalizer with a -10dB Slope

PMI Model No. EQL-17D6G21D6G-10DB-292MF

PMI Model No. EQL-17D6G21D6G-10DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a -10dB slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,

19.0: 17.6 to 21.6GHz, Passive Amplitude Equalizer with a -12dB Slope

PMI Model No. EQL-17D6G21D6G-12DB-292MF

PMI Model No. EQL-17D6G21D6G-12DB-292MF is a passive amplitude equalizer that operates over the frequency range of 17.6 to 21.6GHz and has a -12dB slope. This unit has a maximum input power of 0.5 watts CW and a maximum VSWR of 2.0:1. The unit is supplied with 2.92 connectors in a housing that measures 1.10" x 0.67" x 0.22".

Please Click PMI Website Link,
20.0: **2.0 to 18.0GHz, 200 Watt High Power Limiter**

PMI Model No. LM-218-14-200W-SMF-HERM

PMI Model No. LM-218-14-200W-SMF-HERM is a high power limiter that operates from 2.0 to 18.0GHz and handles 200 Watts Peak Power with pulse widths of 1usec and 0.1% duty cycle or 1 Watt CW. This model offers low loss of 2dB maximum, fast recover of less than 100nsec and is hermetically sealed.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/limiters/LM-218-14-200W-SMF-HERM.htm

21.0: **7.7 to 8.2GHz, Integrated Down-Converter Module with an IF range of DC to 10KHz**

PMI Model No. LCM-7R7G8R2G-CD-1

PMI Model No. LCM-7R7G8R2G-CD-1 is an Amplified RF Laser Control Module for use at a frequency of 7.7GHz to 8.2GHz with an IF range of DC to 10KHz. It features a 20dB voltage programmable attenuator and a 360° phase shifter. This model is designed for low spectral noise and high reverse isolation offered in a slimline housing measuring only 2.5" x 1.75" x 0.4".

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/multifunctionmodules/LCM-7R7G8R2G-CD-1.htm

22.0: **8.5 to 11.0GHz, 8-Bit Digitally Controlled Phase Shifter**
PMI Model No. PS-360-8D5G11G-8-SFF-LVT is a 8.5 to 11.0GHz, 8 Bit Digitally controlled phase shifter with capability of phase shift ranges from 0 to 360 degrees. The phase shift resolution is 1.41 degrees and controlled by eight, low voltage TTL control lines. This model has a typical insertion loss of 8dB and phase accuracy of ±8.5 degrees. The phase flatness is ±4 degrees over any 1GHz within the operating frequency range of 8.5 to 11GHz. Typical PM/AM is ±1.5dB and the switching speed is under 100nsec. The operating voltage is ±15VDC having a positive current draw of 30mA and negative current draw of 20mA. The housing measures 1.60" x 1.75" x 0.50".

Please Click PMI Website Link, http://www.pmi-rf.com/Products/phaseshift-biphasemod/phaseshifters/PS-360-8D5G11G-8-SFF-LVT.htm

23.0: 1.0 to 1.1GHz, SP2T High Power, Reflective Switch

PMI Model No. P2T-1G1R1G-25-R-TFF-40W

PMI Model No. P2T-1G1R1G-25-R-TFF-40W is a single pole, two throw, hermetically sealed, reflective switch designed to operate over the 1.0 to 1.1GHz frequency range. This model is designed to handle 40 watts average input power and 4KW peak having a 3usec pulse width and 1% duty cycle. The switch offers fast switching speeds of 300nsec maximum, low insertion loss of 0.4dB typically and high isolation of 37dB typically. The DC supplies are +50VDC, 18mA typical and +5VDC, 128mA typical. The housing measures 3.92" x 2.68" x 0.70" and is supplied with TNC Female connectors.

Please Click PMI Website Link, http://www.pmi-rf.com/Products/Switches/P2T-1G1R1G-25-R-TFF-40W.htm

24.0: 24.0 to 40.0GHz, SPST, High Speed Absorptive Switch

PMI Model No. P1T-24G40G-55-T-292FF-23DBM

PMI Model No. P1T-24G40G-55-T-292FF-23DBM is a 24.0 to 40.0GHz, absorptive, high speed,
single pole single throw switch. This unit has a rise/fall of 10ns with >55dB of isolation and an input P1dB of > 23dBm. It is supplied with removable 2.92mm(F) connectors in a housing that measures 1.0” x 1.0” x 0.5”.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/Switches/P1T-24G40G-55-T-292FF-23DBM.htm

25.0: 0.1 to 20.0GHz, SP16T Absorptive Switch

![Image](45x585 to 203x665)

PMI Model No. P16T-100M20G-60-T-512-SFF-DEC

PMI Model No. P16T-100M20G-60-T-512-SFF-DEC is a single pole, sixteen throw, absorptive pin diode switch that operates from 0.1 to 20.0GHz. This model has a typical insertion loss of 8.5dB and 60dB of isolation. It operates at 20dBm CW and is controlled with 4-Bit decoded TTL logic.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/Switches/P16T-100M20G-60-T-512-SFF-DEC.htm

26.0: 2.0 to 18.0GHz, SDLVA with a Log Range of -70 to +5dBm

![Image](45x316 to 203x401)

PMI Model No. SDLVA-6G18G-CD-2-OPT218

PMI Model No. SDLVA-6G18G-CD-2-OPT218 is a Successive Detection Logarithmic Video Amplifier (SDLVA) designed to operate over the 2.0 to 18.0GHz frequency range. This model is designed for ultra high speed applications while maintaining flatness and accuracy with a logging range of -70 to +5dBm. The limited RF output is +13dBm ±3dBm typically with a log video slope of 25mV/dB. The pulse range is 30ns to CW with a rise time of 6ns typical and a typical recovery time of 60ns. The housing measures 3.2” x 1.8” x 0.4”.

Please Click PMI Website Link,

Product Updates

27.0: 2.0 to 6.0GHz, SDLVA with a Dynamic Range of -65 to 5dBm
PMI Model No. SDLVA-2G6G-70-CD-1

PMI Model No. SDLVA-2G6G-70-CD-1 is a Successive Detection Log Video Amplifier (SDLVA) that operates between the 2.0 to 6.0GHz frequency range. It has a dynamic range of 70dB, a log slope of 40mV/dB and offers very fast rise and fall times of 15nsec and 25nsec respectively. This model is temperature compensated such that the Log Slope Variation with Temperature is typically ±0.6mV/dB and the Frequency Flatness is better than ±1.2dB. Furthermore, it has been designed using cutting edge GaAs technology which provides stunning performance and reliability in a compact package measuring 3.75" x 1.5" x 0.5" making it an optimum solution for high speed, channelized receiver applications.

Please Click PMI Website Link,

28.0: 0.1 to 40.0GHz, USB Controlled and Powered, 30dB Variable Attenuator

PMI Model No. ATN-30-100M40G-USB

PMI Model No. ATN-30-100M40G-USB is a state-of-the-art attenuator that operates from 100MHz to 40GHz. This attenuator is controlled and powered via USB 2.0. This model offers 30dB of attenuation in 1dB steps. The insertion loss is typically 5dB at 20GHz and 8dB at 40GHz. The package size is 2.25" x 1.0" x 0.33".

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/USB/ATN-30-100M40G-USB.htm

29.0: 0.5 to 20.0GHz, SP2T Terminated Switch

PMI Model No. P2T-500M20G-50-T-5-12-SFF-I

PMI Model No. P2T-500M20G-50-T-5-12-SFF-I is a terminated, single pole, double throw, switch
that operates from 500MHz to 20.0GHz which handles +23dBm CW input power. This model has an In-Line Configuration. The port to port isolation is greater than 50dB. This model has low insertion loss while offering a fast switching speed of 50nsec maximum.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/Switches/P2T-500M20G-50-T-5-12-SFF-I.htm

**DC to 40GHz Components, Modules, and Systems**

PMI offers just about any RF/Microwave component, module, or system for both commercial and military based requirements. Please click on the product types below to be directed to our web site catalog. Components and modules can be modified to meet your exact requirement. *(Click on links below to be directed to the web listings)*

- Low Noise Amplifiers
- Threshold Detectors
- Filters & Switch Filter Banks
- Dielectric Resonator Oscillators
- I/Q Vector Modulators
- Frequency Synthesizers
- Diode Detectors
- Digital Attenuators
- Digitally Tuned Oscillator
- Frequency Discriminators
- I/Q Vector Modulators
- Limiters
Multifunction Integrated Assemblies
Phase Shifters
Power Dividers/Combiners
Quadrature Couplers
SDLVA’s
Switch Matrices
DLVA / ERDLVA
Receiver Front Ends
SMT and QFN Packaging
Rack Mount & Chassis Products
Solid-State Switch Products
Switchable Low-Noise LNA’s

We truly value your interest in our companies and our products. We appreciate your feedback. Please feel free to contact us with any requirements or questions that you may have.