Here's What's New...
New Product Releases & Product Updates
July 5, 2016

*** NEW RELEASES ***
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1.0 PMI Model No.: PDVAN-6012-60-8

PMI Model PDVAN-6012-60-8 is an 8-bit programmable 60 dB pin diode attenuator with step resolution as low as 0.25 dB over the frequency range of 6.0 to 12.0 GHz. Features include SMA female connectors, 15 Pin Sub-miniature D (Male) with supplied mating connector and 8-Bit TTL Compatible. Unit size is 2.00" x 1.80" x 0.50".

- Frequency Range: 6.0 GHz to 12.0 GHz
- Mean Attenuation Range: 60 dB
- LSB: 0.25 dB
- Insertion Loss: 2.8 dB Max. - Measured 2.13 dB
- VSWR: 2.0:1 - Measured 1.7:1
- Survival Power Rating: +30 dBm CW Max.
- Operating Input Power: +20 dBm CW Max.
- Attenuation Flatness:
  - ±0.7 dB @ 10 dB Attenuation - Measured ±0.13 dB
  - ±1.5 dB @ 40 dB Attenuation - Measured ±0.88 dB
  - ±1.6 dB @ 60 dB Attenuation - Measured ±1.41 dB
- Switching Speed: 500 ns maximum. - Measured 260 ns
- Monotonicity: Guaranteed
- Power Supply: +12 V to +15 V @ 150 mA maximum - Measured 38 mA
  -12 V to -15 V @ 75 mA maximum - Measured 0 mA
2.0 PMI Model No.: PXS-1G2G-80-T-SFF

PMI Model No. PXS-1G2G-80-T-SFF is an absorptive, high speed, two pole transfer switch capable of switching within 100ns max. The frequency range is 1.0 to 2.0 GHz. This switch has > 80 dB isolation. Features include SMA female connectors. Unit size is 1.2" x 1.2" x 0.5" with painted blue finish.

- Frequency: 1.0 to 2.0 GHz
- Impedance: 50 Ohms
- Input Power: +30 dBm (1 Watt) Max.
- Input VSWR: 1.5:1 maximum - Measured 1.35:1
- Insertion Loss: 1.0 dB maximum - Measured 0.76 dB
- Isolation: 80 dB minimum - Measured 97.82 dB
- Switching Speed: 100 ns maximum - Measured 30 ns
- DC Voltage: +5 VDC - Measured 43 mA
  -15 VDC (±3V) - Measured 72 mA
- Control: Solder Pin, TTL Logic

3.0 PMI Model No.: P2T-8G12G-70-R-SFF

PMI Model No. P2T-8G12G-70-R-SFF is a Reflective, High Speed, Single Pole Two Throw Switch capable of switching within 100 ns maximum. The frequency range is 8.0 to 12.0 GHz. This switch has > 70 dB isolation.

- Frequency: 8.0 to 12.0 GHz
- Impedance: 50 Ω
- Input Power: +30 dBm maximum (Survival)
  - +20 dBm maximum (Operating)
- Input VSWR: 1.8:1 - Measured 1.7:1
- Insertion Loss: 1.9 dB maximum - Measured 1.66 dB
- Isolation: 70 dB minimum - Measured 77.74 dB
- Switching Speed: 100 ns maximum - Measured 75 ns
- DC Voltage: +5 VDC, 100 mA typical - Measured 21 mA
  - 15 VDC, 75 mA typical - Measured 32 mA
4.0 PMI Model No.: P4T-1G18G-70-T-SFF

PMI Model No. P4T-1G18G-70-T-SFF is an Absorptive, High Speed, Single Pole Four Throw Switch capable of switching within 100 ns maximum. The frequency range is 1.0 to 18.0 GHz. This switch has > 70 dB isolation. Features include SMA female connectors. Unit size is 1.25" x 1.25" x 0.4" with painted blue finish.

- Frequency Range: 1.0 to 18.0 GHz
- Impedance: 50 Ohms
- Input Power:
  +30 dBm max (Survival)
  +20 dBm max (Operating)
- Input VSWR: 2.0:1 maximum - Measured 1.7:1
- Insertion Loss: 3.75 dB max - Measured 3.46 dB
- Isolation: 70 dB min - Measured 71 dB
- Switching Speed: 100 ns max - Measured 52 ns
- DC Voltage: +5 VDC, 200 mA typ - Measured 112 mA
  -15 VDC, 100 mA typ - Measured 54 mA

PMI Website Link,
http://www.pmi-rf.com/products/switches/P4T-1G18G-70-T-SFF.htm

5.0 PMI Model No.: PS-85M4G-9B-SFF

PMI Model No. PS-85M4G-9B-SFF is a 0.085 to 4.0 GHz, Digitally Controlled Analog Phase Shifter with capability for phase shifting from 0° to 360°. The unit consists of an analog phase shifter and a digital to analog converter. Nine logic input lines allow 512 discrete values of phase.

- Frequency Range: 85 MHz to 4.0 GHz
- Control: 9-Bit TTL
- Insertion Loss: 13 dB max. - Measured 10.1 dB
- Phase Shift Range: 360° typical
- Amplitude Error: ±1.0 dB typical - Measured ±1.91 dB
- Phase Shift Error: ±10° typical - Measured +13.4°/-13.1°
- Switching Speed: 500 ns maximum - Measured <300 ns
- Power Supply: +15 V @ 250 mA typical - Measured 265 mA
  -15 V @ 20 mA typical - Measured 38 mA

PMI Website Link,
http://www.pmi-rf.com/Products/phaseshift-biphase/phasers/PS-85M4G-9B-SFF.htm
6.0 PMI Model No.: DLVA-18G40G-42-50-CD-1

PMI Model No. DLVA-18G40G-42-50-CD-1 is a DLVA operating over the frequency range of 18.0 to 40.0 GHz, with performance optimized over the frequency range of 30.0 to 31.0 GHz. This unit features a 42dB logging range and is housed in a hermetic package.

- Frequency Range:
  - 18.0 to 40.0 GHz (Operational)
  - 30.0 to 31.0 GHz (Full Performance)
- Flatness @ -23 dBm: ±0.25 dB - Measured ±0.1 dB
- VSWR (In/Out): 1.5:1 Max - Measured 1.18
- TSS: -34 dBm - Measured -39.8 dBm
- Logging Range: -32 to +10 dBm
- Log Slope: 50 mV/dB ±3 dB - Measured +51.83 mV/dB
- Log Linearity: ±0.5 dB - Measured +0.4, -0.35 dB
- DC Offset: 0 to ±75 mV - Measured +45 / -4 mV
- Output Stability (-54 to +85 °C): ±0.75 dB - Measured ±0.29 dB
- Output Polarity: Positive
- Rise Time (TSS + 10 dB): 1000 ns
- Recovery Time: 100 µs
- Video Load: 100 Ohms
- Supply Voltage: ±15 VDC

PMI Website Link,

7.0 PMI Model No.: LM-32G36G-14-20W-SMT

PMI Model No. LM-32G36G-14-20W-SMT is a high power limiter capable of withstanding an input power level of 20 W, 30 µs pulse width, and 30% duty cycle. This model operating in the 32 GHz to 36 GHz frequency range. The insertion loss is 2.0 dB maximum, VSWR of 2.0:1 and 250 ns response time. This limiter is supplied mounted in a two path test fixture. One path includes a surface mount limiter package, while the other is a thru path used to normalize the insertion loss of the fixture.

- Frequency Range: 32.0 to 36.0 GHz
- Insertion Loss: 2.0 dB Maximum
  - Measured 1.6 dB - Loss from the test fixture removed
  - Measured 2.7 dB - Loss from the test fixture & Limiter
- Peak Power: 20 Watts (43 dBm)
- Pulse Width: 30 µs
- Duty Cycle: 30 %
- Leakage Power: +14 dBm Typical - Measured +15 dBm
- 1 dB Recovery Time: 250 ns Maximum - Measured 100 ns
- VSWR: 2.0:1 - Measured 1.44:1
- Size: (L) 0.270" x (W) 0.198" x (H) 0.016"

PMI Website Link,
http://www.pmi-rf.com/Products/limiters/LM-32G36G-14-20W-SMT.htm

8.0 PMI Model No.: LM-500M8G-12-33DBM-12V
PMI Model No. LM-500M8G-12-33DBM-12V is an active limiter that operates over a frequency range of 0.5 to 8.0 GHz with a maximum input power of +33 dBm CW and a maximum leakage power of +12.3 dBm. The VSWR is 2.0:1 and the operating voltage is +12 VDC with a typical current draw of 180mA. The unit is supplied with removable SMA(F) connectors in our standard PE2 housing.

- Frequency Range: 0.5 to 8.0 GHz
- Insertion Loss: 2.0 dB maximum - Measured +14.5 dB Gain
- Maximum Input Power: +33 dBm CW
- Output Leakage Power: +12.3 dBm maximum - Measured +10.7 dBm
- VSWR: 2.0:1 maximum - Measured 1.6:1
- DC Supply: +12 VDC @ 180 mA maximum - Measured 240 mA

PMI Website Link,
http://www.pmi-rf.com/products/limiters/lm-500m8g-12-33dbm-12v.htm

9.0 PMI Model No.: DTA-18G40G-50-CD-1

PMI Model No. DTA-18G40G-50-CD-1 is a 10 Bit programmable 50 dB attenuator with step resolution as low as 0.05dB over the frequency range of 18.0 to 40.0 GHz. This model is offered in a slim line housing measuring only 0.5" in height with 2.92mm female connectors.

- Frequency Range: 18.0 to 40.0 GHz
- Mean Attenuation Range: 50 dB
- Insertion Loss: 8.5 dB typical - Measured 10.4 dB
- VSWR: 2.5:1 maximum - Measured 2.27:1
- Flatness: ±1.5 dB typical - Measured
  2.10 dB to 16 dB, 2.10 dB to 32 dB, 3.80 to 50 dB
- Attenuation of Accuracy: ±2.0 dB typical
  - Measured 0 to 16 dB: ±0.14 dB, 16 to 32 dB: ±0.18 dB, 32 to 50 dB: ±0.48 dB
- Power Handling Capability: +24 dBm CW maximum
- Input 1dB Compression: +10 dBm typical
- Switching Time:
  On Time: 1.0 µs maximum - Measured 120 ns
  Off Time: 0.5 µs maximum - Measured 266 ns
- Power Supply: 15V @ 100 mA maximum - Measured 38 mA
- Connectors: (2) 2.92mm (F) & 15 Pin Micro-D Female
  Shipped with mating Micro-D Male

PMI Website Link,

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*** PRODUCT UPDATES ***

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10.0 PMI Model No.: PS-204-1G2G-8B-SFF

PMI's Model No. PS-204-1G2G-8B-SFF is a 1.0 to 2.0 GHz 8-Bit, Digitally Controlled Phase Shifter with the capability for phase shifting from 0° to 204° with resolution as fine as 0.8°. Features include SMA female connectors, 15 Pin Sub-miniature D (Male) with supplied mating connector and TTL Compatible. Unit size is 2.00" x 2.10" x 0.50" with painted blue finish.

- Frequency Range: 1.0 to 2.0 GHz
- RF Input Power: 10 dBm
- Phase Control Range: 204° typical - measured 203.6°
- LSB: 0.8° - measured 0.75°
- Switching Speed: 1 usec, 500 nsec typical - measured <300 nsec
- VSWR: 2.5:1 - measured 1.9:1
- RF Impedance: 50 Ω
- Insertion Loss: 6.0 dB typical - measured 4.9 dB
- Phase Flatness: ±10.0° maximum - measured ±6.7°
- Amplitude Error: ±1.0 dB maximum - measured ±0.3 dB
- Power Supply: +12 V to +15 V @ 50 mA typical - measured 39 mA

PMI Website Link,

11.0 PMI Model No.: SDLVA-18G40G-65-2-292FF

PMI's Model No. SDLVA-18G40G-65-2-292FF is a Successive Detection Log Video Amplifier (SDLVA) that operates between the 18.0 to 40.0 GHz frequency range. It has a dynamic range of 65 dB. This unit has a log slope of 25 mV/dB, and a nominal video bandwidth of 32 MHz. This design uses cutting edge GaAs technology which provides excellent performance and reliability in a compact package making it an optimum solution for high speed channelized receiver applications. The unit has SMA Female connectors in a nickel plated housing measuring 2.37" x 1.80" x 0.42".

- Frequency Range: 18.0 to 40.0 GHz
- TSS: -65 dBm @ 25 °C - measured -68 dBm
- Input Power Handling: 10 dBm maximum
- Video Log Linearity: ±2.0 dB to +2 dBm - measured +1.72 dB, -1.72 dB ±3.0 over temperature
- Video Log Range: -63 dBm to +2 dBm
- Video Log Slope: 25 mV/dB nominal - measured 24.2 mV/dB
- Video Log Intercepts: Video Output at 2 dBm: 1940 mV maximum, 1476 mV minimum
  Video Output at -63 dBm: 280 mV maximum, 65 mV minimum
- Video Frequency Flatness: ±2.5 dB max @ 2 5°C - measured ±2.20 dB
- Pulse Width Range: 30 nsec to CW
- Video Rise Time: 11 nsec (8 nsec typical) - measured 10.04 nsec
- Recovery Time: 60 ns (40 nsec typical) - measured 60 nsec
- Delay Time: 15 nsec (5 nsec typical) - measured 14.6 nsec
  7 nsec over temperature typical
- Video Output Impedance: 50 ohm
- Input VSWR (50 OHM): 2.5:1 - measured 2.34:1
- DC Power Supply: +12V @ 600 mA - measured +310 mA
  -12 V @ 250 mA - measured -150 mA
12.0 PMI Model No.: SDLVA-18G40G-65-CD-292FF-A15

PMI’s Model No. SDLVA-18G40G-65-2-292FF is a Successive Detection Log Video Amplifier (SDLVA) that operates between the 18.0 to 40.0 GHz frequency range. It has a dynamic range of 65 dB. This unit has a log slope of 25 mV/dB, and a nominal video bandwidth of 32 MHz. This design uses cutting edge GaAs technology which provides excellent performance and reliability in a compact package making it an optimum solution for high speed channelized receiver applications. The unit has SMA Female connectors in a nickel plated housing measuring 2.37" x 1.80" x 0.42".

- Frequency Range: 18.0 to 40.0 GHz
- TSS: -65 dBm @ 25 °C - measured -68 dBm
- Input Power Handling: 10 dBm maximum
- Video Log Linearity: ± 1.5 dB @ 25 °C - measured +1.27 dB, -1.48 dB
- Video Log Range: -63 dBm to +2 dBm
- Video Log Slope: 25 mV/dB nominal - measured 24.4 mV/dB
- Video Log Intercepts: Video Output at 2 dBm: 1940 mV maximum, 1476 mV minimum
  Video Output at -63 dBm: 280 mV maximum, 65 mV minimum
- Video Frequency Flatness: ±2.5 dB max @ 2 5°C - measured ±2.10 dB
- Pulse Width Range: 30 nsec to CW
- Video Rise Time: 11 nsec (8 nsec typical) - measured 10.04 nsec
- Recovery Time: 60 ns (40 nsec typical) - measured 60 nsec
- Delay Time: 15 nsec (5 nsec typical) - measured 14.6 nsec
  7 nsec over temperature typical
- Video Output Impedance: 50 ohm
- Input VSWR (50 OHM): 2.5:1 - measured 2.34:1
- DC Power Supply: +12V @ 600 mA - measured +310 mA
  -12 V @ 250 mA - measured -150 mA

*** For more information on PMI's complete line of products, please visit ***
http://www.pmi-rf.com
Low Noise Amplifiers

Thermal Detectors

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

Sincerely,

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