Here's What's New...

New Product Releases & Product Updates

November 11, 2016

*** NEW RELEASES ***

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1.0 PMI Model No.: APD-4-20M6G-28V

PMI Model No. APD-4-20M6G-28V is a 4-Way Amplified Power Divider Module for use over the frequency range of 20 MHz to 6.0 GHz with 3.5 dB of gain, and a typical output P1dB of 9 dBm. This model is designed to have a low noise figure over a broad frequency range. Features include SMA female connectors, 9 Pin Sub-miniature D (Male) with supplied mating connector. Unit size is 2.00" x 2.00" x 0.40".

- Frequency Range: 20 MHz to 6.0 GHz
- Gain: 3.5 dB, ±2 dB Max -
  Measured:
  3.5 dB ±1.07 dB J1 Max
  3.5 dB ±1.05 dB J2 Max
  3.5 dB ±0.94 dB J3 Max
  3.5 dB ±0.91 dB J4 Max
- VSWR: 2.5:1 -
  Measured:
  1.70:1 dB J1 Max
  1.69:1 dB J2 Max
  1.70:1 dB J3 Max
  1.66:1 dB J4 Max
  2.27:1 dB J5 Max
- Noise Figure:
5.5 dB (70 to 3000 MHz) Max  
6 dB (20 to 6000 MHz) Typ  
Measured:  
4.4 dB, 4.7 dB J1 Max  
4.5 dB, 4.8 dB J2 Max  
4.7 dB, 4.6 dB J3 Max  
4.6 dB, 4.8 dB J4 Max  
- Operating Input Power: +30 dBm CW Max (Survival) - Measured 33 dBm Max  
- Power Supply: +28 V @ 200 mA Max - Measured 75 mA  
- Weight: 100 g Max - Measured 75 g

PMI Website Link,  
http://www.pmi-rf.com/Products/power_divider/APD-4-20M6G-28V.htm

2.0 PMI Model No.: P3T-4G8G-75-T-SFF

PMI Model No. P3T-4G8G-75-T-SFF is an Absorptive, High Speed, Single Pole Three Throw Switch capable of switching within 100 ns maximum. The frequency range is 4.0 to 8.0 GHz. This switch has > 75 dB isolation, and is outfitted with SMA female connectors. Unit size is 1.5" x 1.5" x 0.4" with painted blue finish.

- Frequency Range: 4.0 to 8.0 GHz  
- Impedance: 50 Ohms  
- Input Power:  
  +30 dBm Max (Survival)  
  +20 dBm Max (Operating)  
- Input VSWR: 1.6:1 Max - Measured 1.4:1  
- Insertion Loss: 2.5 dB Max - Measured 1.6 dB  
- Isolation: 75 dB Min - Measured 87 dB  
- Switching Speed: 100 ns Max - Measured 55 ns  
- DC Voltage: +5 VDC, 100 mA Typ - Measured 76 mA  
  -15 VDC, 100 mA Typ - Measured 55 mA

PMI Website Link,  
http://www.pmi-rf.com/Products/Switches/P3T-4G8G-75-T-SFF.htm

3.0 PMI Model No.: P3T-12G18G-70-T-SFF

PMI Model No. P3T-12G18G-70-T-SFF is an Absorptive, High Speed, Single Pole Three Throw Switch capable of switching within 100 ns maximum. The frequency range is 12.0 to 18.0 GHz. This switch has > 70 dB isolation, and is outfitted with SMA female connectors. Unit size is 1.5" x 1.5" x 0.4" with painted blue finish.

- Frequency Range: 12.0 to 18.0 GHz  
- Impedance: 50 Ohms  
- Input Power:  
  +30 dBm Max (Survival)  
  +20 dBm Max (Operating)  
- Input VSWR: 2.0:1 Max - Measured 1.93:1  
- Insertion Loss: 3.75 dB Max - Measured 3.0 dB  
- Isolation: 70 dB minimum - Measured 87 dB  
- Switching Speed: 100 ns Max - Measured 55 ns  
- DC Voltage: +5 VDC, 150 mA Typ - Measured 77 mA  
  -15 VDC, 100 mA Typ - Measured 54 mA

PMI Website Link,  
http://www.pmi-rf.com/Products/Switches/P3T-12G18G-70-T-SFF.htm
4.0 Model No.: P4T-0R5G18G-55-R-SFF-PN

PMI Model No. P4T-0R5G18G-55-R-SFF-PN is a single pole, four throw reflective switch designed to operate over the 0.5 to 18.0 GHz frequency range. This model is designed to maintain low insertion loss, high isolation and fast switching speed, and is outfitted with SMA female connectors. Unit size is 1.5" x 1.5" x 0.6" with painted blue finish.

- Frequency: 0.5 to 18.0 GHz
- Insertion Loss: 3.2 dB Max. - Measured 2.60 dB
- Isolation: 55 dB Min - Measured 67.32 dB
- VSWR: 2.0:1 Max. - Measured 1.84:1
- Input Power: +20 dBm CW Max.
- Switching Speed: 100 ns Max - Measured 69.8 ns
- DC Voltage: +5 VDC - Measured 32 mA
- -15 VDC (±3V) - Measured 25 mA
- Control: Solder Pin, TTL Logic

5.0 PMI Model No.: P4T-17G40G-60-R-55-292FF

PMI Model No. P4T-17G40G-60-R-55-292FF is a single pole, four throw, reflective switch, capable of switching within 100 ns maximum. This switch has > 60 dB isolation, and is outfitted with 2.92mm female connectors. Unit size is 1.25" x 1.25" x 0.5" with painted blue finish.

- Frequency Range: 17.0 to 40.0 GHz
- Input Power: 100 mW CW (+20 dBm CW) Hot Switching
- Input VSWR: 2.0:1 Max - Measured 1.95:1
- Insertion Loss: 4.5 dB Max - Measured 4.38 dB
- Isolation: 60 dB Min - Measured 71 dB
- Switching Speed:
  - 100 ns Max (50% TTL to 10% RF)
  - 100 ns Max (50% TTL to 90% RF)
  - Measured Rise 12.0 ns, Fall 19.5 ns
- DC Voltage: +5 VDC, 100 mA Max - Measured 35 mA
  -5 VDC, 100 mA Max - Measured 25 mA
6.0 PMI Model No.: IRMX-8G12G-50-33-SFF

PMI Model No: IRMX-8G12G-50-33-SFF is an Image Reject Mixer operating over the 8.0 to 12.0 GHz frequency range. This model offers a typical image rejection of 33 dB while limiting the noise figure to a maximum of 9.5 dB, and is outfitted with SMA female connectors. Unit size is 2.00" x 1.35" x 0.58" with painted blue finish.

- Frequency Range: 8.0 to 12.0 GHz
- LO Power: +14 dBm Min, +15 dBm Typ, +17 dBm Max
- LO VSWR: 1.4:1 Typ
- RF VSWR: 3.0:1 Typ
- IF Output Impedance: 50 Ohm
- Conversion Loss: 7.5 dB Typ, 9.0 Max
- Noise Figure: 8.0 dB Typ, 9.5 dB Max
- Input IP3: +23 dBm Typ
- Input P1dB: +14 dBm Typ
- LO - RF Isolation: 40 dB Min, 50 dB Typ
- Image Rejection: 23 dB Min, 33dB Typ
- LO/RF Input Power w/o Damage: +23 dBm Max

PMI Website Link,
http://www.pmi-rf.com/Products/Misc-Comp/IRMX-8G12G-50-33-SFF.htm

7.0 PMI Model No.: LM-1G2G-4CW-1KWP-SMF

PMI Model No. LM-1G2G-4CW-1KWP-SMF is a RF limiter that operates over the 1.0 GHz to 2.0 GHz frequency range. This limiter can handle 4 W CW and 1 kW peak (1% duty cycle, 1 µs maximum pulse width) input power and provides a maximum leakage of +16 dBm CW output. This module has a low insertion loss of 0.7 dB and a recovery time of 1 µs. The unit is supplied with removable SMA (F) connectors.

- Frequency Range: 1.0 to 2.0 GHz
- Insertion Loss: 0.7 dB Max - Measured 0.65 dB
- Input / Output VSWR: 2.0:1 Max (@-10 dBm Input) - Measured 1.54:1
- Impedance: 50 Ohm
- Input Power: 4 W CW Max,1 kW Peak (1% Duty Cycle, 1 µs Max Pulse Width)
- Maximum Flat Leakage: +16 dBm Max (40 mW) - Measured +15.35 dBm
- P1dB: 5 dBm Min - Measured 12 dBm
- Recovery Time: 1 µs Max - Measured 100 ns

PMI Website Link,
http://www.pmi-rf.com/Products/limiters/LM-1G2G-4CW-1KWP-SMF.htm
8.0 PMI Model No.: AMP-218-13-16-12-SFF

PMI Model AMP-218-13-16-12-SFF is a 2.0 - 18.0 GHz amplifier with a nominal gain of 13 dB, +16 dBm compression point, and a noise figure of 4 dB maximum. Unit size is 0.70" x 0.76" x 0.365" with gold plated finish and is outfitted with SMA female connectors.

- Frequency Range: 2.0 to 18.0 GHz
- Gain: 13 dB ± 2 dB @ 25º C - Measured 13.5 dB
- Small Gain Flatness: ±1.0 dB Max. - Measured ±0.71 dB
- Gain Stability: ±1.0 dB Max. - Measured ±0.3 dB (Over Temp. -10 ºC to 70 ºC)
- Noise Figure:
  4 dB Max. @ 25 ºC - Measured 3.9 dB
  5 dB Max. @ 70 ºC - Measured 4.6 dB
- 1dB Gain Compression: 16 dBm Min - Measured 16.4 dBm
- Unconditional Stability: Stable for any magnitude and phase of source and load impedance.
- Out of Band Gain: Shall be no greater than 2 dB higher than the gain inside the operating band.
- Input / Output VSWR:
  Input: 2.5:1 Max - Measured 1.44:1
  Output: 2.3:1 Max - Measured 1.76:1
- Maximum Input Level: +20 dBm CW Min
- DC Power: +12 VDC @ 200 mA Max - Measured 198 mA
- Power Supply Variations: ±0.5 V
- RF Leakage Levels: -60 dBm

PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/AMP-218-13-16-12-SFF.htm

9.0 PMI Model No.: ERDLVA-218-CW-LPD

PMI Model No. ERDLVA-218-CW-LPD is a CW Immune, Extended Range Detector Logarithmic Video Amplifier (ERDLVA) designed for ultra low DC power consumption. This model operates over the 2.0 to 18.0 GHz frequency range and has the ability to interface with an output cable measuring over 100 feet in length. This model provides very high speed, excellent flatness and accuracy in an ultra small hermetically sealed housing measuring only 2.04" x 1.67" x 0.472".

- Frequency Range: 2.0 to 18.0 GHz
- Frequency Flatness: ±2.0 dB Max. - Measured ±1.42 dB
- TSS: -64 dBm Min (Video In) - Measured -65 dBm
- Maximum Noise: 100 mV RMS with input terminated - Measured 28.3mV RMS
- VSWR: 2.0:1 - Measured 1.82:1
- Maximum Power Handling (No Damage):
  +30 dBm CW
  +50 dBm Peak Pulse, 1% Duty Cycle, 10 µs
- Log Slope: 77 mV/dB (±5 mV) - Measured 74.19 mV/dB @ 10 GHz
- Video Output Range: -0.5 V (-60 dBm) <RF IN < 5.5 V (4 dBm)
PMI Website Link,  
http://www.pmi-rf.com/Products/dlva/ERDLVA-218-CW-LPD.htm

10.0 PMI Model No.: APD-8-30M6G-SFF

PMI Model No. APD-8-30M6G-SFF is a 30 MHz to 6.0 GHz amplified 8 way power divider module. This module provides a nominal insertion loss of 6 dB with a typical flatness of ±1 dB over the operating frequency range. Over 36 dB of reverse isolation is provided with a typical noise figure of 6.5 dB and an input 1 dB compression of -2.5 dBm. Input and Output VSWR is less than 2.0:1 into 50 OHM impedance. The DC supply required is +12 to +15 volts and current draw is typically 48 mA. Field removable SMA female connectors are utilized in a housing measuring 4.5" x 4.3" x 0.5".

- Frequency Range: 30 MHz to 6.0 GHz  
- Outputs (J1-J8) to input (J9) Isolation:  
  32 dB Min. - Measured 41 dBm  
  36 dB Nominal  
- Insertion Loss: 4 dB Min - Measured 6.5 dB  
- Insertion Loss Flatness: ±1 dB Typ. - Measured ±1.37 dB  
- Noise Figure: 6.5 dB Typ. - Measured 7.5 dB  
- 6 dB Nominal, 8 dB Max.  
- VSWR (In / Out): 2.0:1 - Measured 1.88:1 (input), 1.49:1 (Output)  
- Input P1dB: -2.5 dBm Typ - Measured >2.5 dBm  
- Power Rating: +10 dBm Max  
- DC Power Supply: +12 to +15 VDC @ 100 mA Nominal - measured 48 mA

PMI Website Link,  
http://www.pmi-rf.com/Products/power_divider/APD-8-30M6G-SFF.htm

11.0 PMI Model No.: VVA-1G4G-CD-SFF
PMI Model No. VVA-1G4G-CD-SFF-1 is a 1.0 to 4.0 GHz voltage variable attenuator. This model offers up to 15 dB of attenuation over the full operating frequency range. This unit is controlled by a DC voltage that ranges from 0 to +5 VDC. No other DC power is required for operation. This model is supplied in our standard PE2 housing that can be used as a SMA connectorized or SMT component.

- Frequency Range: 1.0 to 4.0 GHz
- Mean Attenuation Range: 15 dB
- Insertion Loss: 2.0 dB Typ
- VSWR @ 0 Attenuation: 2.0:1 - Measured 1.43:1
- Power Rating: +18 dBm CW Max
- Input 0.25 dB Compression: +4 dBm Typ - Measured +8 dBm
- Attenuation Flatness: ±0.5 dB Typ. - Measured ±0.75 dB
- DC Control Voltage:
  - 0 V --> 20 dB Attenuation
  - +3 V --> 15 dB Attenuation
  - +5 V --> Insertion Loss

PMI Website Link,
http://www.pmi-rf.com/Products/attenuators/VVA-1G4G-CD-SFF-1.htm

12.0 PMI Model No.: GMPA-8217-7

PMI Model No. GMPA-8217-7 is a 8.5 to 17.5 GHz Amplifier with small signal gain from 5.0 to 9.0 GHz and a P1dB output power of +22 dBm. This unit is supplied with SMA female connectors in a housing measuring 1.56" x 1.00" x 0.60"

- Frequency Range: 8.5 to 17.5 GHz
- Small Signal Gain:
  - 5.0 dB Min - Measured 5.63 dB
  - 9.0 dB Max - Measured 8.37 dB
- Power Output: +22 dBm P-1dB Min
- VSWR (In/Out): 2.0:1 - Measured 1.82:1
- Gain vs Frequency: ±1 dB Max
- Impedance: 50 Ohms
- Noise Output: -85 dBm/MHz Max
- Harmonics: -10 dBc @ +19 dBm Input - Measured -29.85 dBC
- Saturated Power: +28 dBm Max
- DC Power Supply: +15 VDC @ 700 mA Nominal - measured 48 mA

PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/GMPA-8217-7.htm

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

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- Phase Shifters
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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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