**Here's What's New...**

**New Product Releases & Product Updates**

*August 3, 2016*

*** NEW RELEASES ***

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1.0 PMI Model No.: PS-2G18G-360-8D

PMI Model No. PS-2G18G-360-8D is a 2.0 to 18.0 GHz, 8-Bit, Vector Phase Shifter making it ideal for frequency translation where continuous monotonic phase shifting is required. This model also features high speed switching and typically lower than 60 dB harmonic distortion. Features include SMA female connectors, DC-37P, Sub Miniature D Multi-Pin power and control connector. Unit size is 4.25" x 3.50" x 1.00".

- Frequency Range: 2.0 to 18.0 GHz
- Phase Range: 360°
- RF Input Power: +20 dBm CW, 1 Watt max.
- Insertion Loss: 18.0 dB max. - Measured 17.29 dB
- VSWR (50 Ohm System): 2.2:1 max. - Measured 1.79:1
- Switching Speed: 500 ns max. - Measured 410 ns
- Power Supply: +15 V @ 100 mA max. - Measured 63 mA  
  -15 V @ 100 mA max. - Measured 76 mA

PMI Website Link,  
2.0 PMI Model No.: PS-200M10G-8B-SFF

PMI Model No. PS-200M10G-8B-SFF is an 8-Bit Digital Phase Shifter that operates over the 200 MHz to 10.0 GHz frequency range. This model offers 360° of phase shift with an LSB of 1.4°. Features include SMA female connectors, 15 Pin Sub-miniature D (Male) with supplied mating connector and 8-Bit TTL Compatible. Unit size is 3.25" X 3.25" X 0.84".

- Frequency Range: 200 MHz to 10.0 GHz
- Insertion Loss: 10.5 dB typ. - Measured 8.0 dB
- Phase Shift: 360°
- Switching Speed: 500 ns max. - Measured <250 ns
- VSWR: 2.4:1 Output, 1.5:1 Input
- Accuracy: ±0.5° max. - Measured ±0.35°
- Temperature: -55 ºC to +85 ºC
- Power Supply: +15 V - Measured 189 mA
  -15 V - Measured 21 mA

PMI Website Link

3.0 PMI Model No.: PS-500M2G-10B-SFF

PMI Model No. PS-500M2G-10B-SFF is a 0.5 to 2 GHz digitally controlled analog phase shifter with capability for phase shifting from 0° to 360°. The unit consists of an analog phase shifter, a digital phase shifter, and a digital-to-analog converter. Ten logic input lines allow 1024 discrete values of phase.

- Frequency: 0.5 to 2.0 GHz
- Control: 10-Bit TTL
- Insertion Loss: 13.0 dB max. - Measured 8.2 dB
- Phase Shift: 360° typ.
- Amplitude Error: ±1.0 dB max. - Measured ±0.23 dB
- Phase Shift Error: ±5° max. - Measured +3.4°/ -2.6°
- Switching Speed: 500 ns max. - Measured <300 ns
- Temperature: 0 ºC to +50 ºC
- Power Supply: +15 V @ 250 mA max. - Measured 254 mA
  -15 V @ 20 mA max. - Measured 40 mA

PMI Website Link

4.0 PMI Model No.: P2T-10M6G-45-R-5V-SFF-HIP20W

PMI Model No. P2T-10M6G-45-R-5V-SFF-HIP20W is a Reflective, Single Pole, Two Throw Pin Diode Switch that operates over the 10 to 6000 MHz frequency range. This model is capable of handling an input power level of 20 watts CW while providing switching speeds of <100 ns and requires a single +5 VDC supply. This model incorporates a TTL compatible driver for easy system integration. Package Size is 1.20" x 1.00" x 0.50" with SMA (F) connectors.

- Frequency Range: 1.0 to 6.0 GHz
5.0 PMI Model No.: P2T-500M10G-60-R-515-SFF-10WCW

PMI Model No. P2T-500M10G-60-R-515-SFF-10WCW is a Single Pole Two Throw Reflective Switch that operates over the 0.5 to 10.0 GHz frequency range. This switch handles input power of 10 watts CW and has a maximum switching speed of 100 ns. Package Size is 1.20" x 1.00" x 0.50" with SMA (F) connectors.

- Frequency Range: 0.5 to 10.0 GHz
- Isolation: 60 dB min. - Measured 88 dB
- VSWR: 2.0:1 max. - Measured 1.6:1
- Insertion Loss: 2.5 dB max. - Measured 1.15 dB
- RF Input Power: 10 Watts CW max. - Tested to 10 W CW (50% TTL to 10%/90% RF)
- Switching Speed: 100 ns max. - Measured 86 ns
- Temperature: -54 °C to +85 °C
- DC Voltage: +5 V @ 100 mA max. - Measured 38 mA
  -15 V @ 75 mA max. - Measured 43 mA

PMI Website Link,
http://www.pmi-rf.com/products-switches/P2T-500M10G-60-R-515-SFF-10WCW.htm

6.0 PMI Model No.: P2T-500M18G-80-T-515-SFF-4W

PMI Model No: P2T-500M18G-80-T-515-SFF-4W is a SP2T Absorptive, PIN Diode Switch that operates over the 0.5 to 18.0 GHz frequency range. This switch handles a maximum RF Input Power of 4 Watts CW and has a maximum switching speed of 200 ns. It has a minimum isolation of 70 dB with a typical insertion loss of 3.5 dB, and a maximum VSWR of 2.0:1. This switch requires +5 to -15 VDC. It is supplied with SMA (F) connectors in a housing measuring 1.0" x 1.0" x 0.4".

- Frequency Range: 0.5 to 10.0 GHz
- Isolation: 70 dB min. - Measured 75.21 dB
VSWR: 2.0:1 max. - Measured 1.86:1
Insertion Loss: 3.5 dB max. - Measured 3.14 dB
RF Input Power: 4 Watts CW max. - Tested to 4 W CW
Switching Speed: 200 ns max. - Measured 60 ns
Temperature: -54 ºC to +85 ºC
DC Voltage: +5 V - Measured 116 mA
-15 V - Measured 144 mA

PMI Website Link,

7.0 PMI Model No.: P2T-6G18G-40-R-570-TFF-1D6KW

PMI Model No. P2T-6G18G-40-R-570-TFF-1D6KW is a reflective 1.6 kilowatt high-power cold switching single pole double throw switch operating in the 6.0 to 18.0 GHz frequency range. Package Size is 1.20" x 1.00" x 0.50" and has TNC (F) connectors.

- Frequency Range: 6.0 to 18.0 GHz
- Power: 1.6 KW Peak - Tested to 130 Watts CW
- Duty Cycle: 8%
- Insertion Loss: 2.2 dB max. - Measured 2.15 dB
- Isolation: 40 dB - Measured 40 dB
- Pulse Width: 250 us max.
- Switching Speed: 200 ns max. - Measured 165 ns "On", 95 ns "Off"
- VSWR: 2.0:1 max. - Measured 1.99:1
- Load VSWR: Better than 1.5:1
- DC Voltage: +5 V @ 300 mA max - Measured 265 mA
- -70 V @ 60 mA max - Measured 17 mA

PMI Website Link,

8.0 PMI Model No.: P2T-1G1R1G-25-R-SFF-100W

PMI Model No. P2T-1G1R1G-25-R-SFF-100W is a single pole, two throw, hermetically sealed reflective switch designed to operate over the 1.0 to 1.1 GHz frequency range. This model is designed to handle 100 Watts average input power and 100 W CW / 5 KW peak having a 17 µs pulse width and 2% duty cycle. Package Size is 4.22" x 2.98" x 0.70" with TNC (F) connectors.

- Frequency Range: 1.0 to 1.1 GHz
- Isolation: 25 dB min. - Measured 40.09 dB
- VSWR: 1.5:1 max. - Measured 1.16:1
- Insertion Loss: 0.8 dB max. - Measured 0.49 dB
- RF Input Power: 100 W CW / 5 kW peak - Tested at 5 kW peak
- Switching Speed: 250 ns max. - Measured 287 ns
- Temperature: -40 ºC to +85 ºC
- DC Voltage: +50 V @ 50 mA max - Measured 17 mA
- +5 V @ 200 mA max - Measured 135 mA

PMI Website Link,
http://www.pmi-rf.com/products/Switches/P2T-1G1R1G-25-R-SFF-100W.htm
9.0 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. 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 2.92mm connectors in a housing that measures 1.10" x 0.67" x 0.22".

- Frequency Range: 17.6 to 21.6 GHz
- Maximum Input Power: 0.5 Watts CW
- VSWR: 2.0:1 max. - Measured 1.66:1
- Amplitude @ 17.6 GHz: -1 dB Min - Measured -1.32 dB
- Slope: Amplitude @ 17.6 GHz
  - Amplitude -2 dB @ 21.6 GHz
  - Amplitude= -0.5 dB/GHz* (Frequency above 17.6 GHz in GHz)+(Amplitude @ 17.6 GHz)
  - Measured -0.48 dB/GHz
- Linearity: ±0.5 dB

PMI Website Link,

*** PRODUCT UPDATES ***

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10.0 PMI Model No.: PS-500M2G-8B-SFF

PMI Model No. PS-500M2G-8B-SFF is a State-Of-The-Art, 8-Bit Digitally Controlled Phase Shifter that operates over the 500 MHz to 2.0 GHz frequency range. This model has a typical insertion loss of 10 dB and offers 360° of phase shift via 8-Bit TTL control. The phase shift error is less than ±10° and the amplitude error is less than ±1 dB. The switching speed is 500 ns maximum. This unit operates on ±15 VDC and is supplied in a housing measuring 4.95" x 3.38" x 1.00".

- Frequency Range: 1.0 to 1.1 GHz
- Insertion Loss: 13 dB max. - Measured 9.77 dB
- Phase Shift: 360°
- VSWR: 1.75:1 typ. - Measured 1.65:1
- Accuracy: ±10° max. - Measured ±0.48°
- Switching Speed: 500 ns max. - Measured <265 ns
- Temperature: 0 ºC to +50 ºC
- Power Supply: +15 V @ 250 mA max. - Measured 249 mA
  -15 V @ 20 mA max. - Measured 18 mA

PMI Website Link,
PMI Model No. DTA-0R5G4G-60-CD-1-OPT12VDC is a non-reflective 10 Bit Programmable 60 dB Pin Diode Attenuator with step resolution as low as 0.06 dB over the frequency range of 0.5 to 4.0 GHz.

- Frequency Range: 0.5 to 4.0 GHz
- Mean Attenuation Range: 60 dB
- Insertion Loss: 2.7 dB max. - Measured 2.1 dB
- VSWR: 1.8:1 max.
- Flatness:
  - ±0.5 dB @ 20 dB Attenuation - Measured ±0.18 dB
  - ±0.75 dB @ 40 dB Attenuation - Measured ±0.58 dB
  - ±1.0 dB @ 60 dB Attenuation - Measured ±1.4 dB
- Attenuation of Accuracy:
  - ±1.0 dB @ 0 to 20 dB Attenuation - Measured ±0.49 dB
  - ±1.5 dB @ 20 to 40 dB Attenuation - Measured ±0.75 dB
  - ±2.0 dB @ 40 to 60 dB Attenuation - Measured ±1.22 dB
- Switching Time
  - On Time: 1.0 us max. - Measured 0.75 us
  - Off Time: 0.5 us max. - Measured 0.25 us
- Power Supply: +12 V @ 100 mA max. - Measured 69 mA
  - -12 V @ 80 mA max. - Measured 40 mA

PMI Website Link,

http://www.pmi-rf.com/Products/attenuators/DTA-0R5G4G-60-CD-1-OPT12VDC.htm

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*** For more information on PMI's complete line of products, please visit ***

http://www.pmi-rf.com

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DC to 50 GHz Components, Modules, and Sub-Systems

PMI offers just about any RF/Microwave component, module, or sub-system for both industrial 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)
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Multifunction Integrated Assemblies
Phase Shifters
Power Dividers/Combiners
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SDLVA's
Switch Matrices
DLVA/ERDLVA
Receiver Front Ends
SMT and QFN Packaging
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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