Here's What's New...

New Product Releases & Product Updates

April 18, 2017

*** NEW RELEASES ***

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1.0 PMI Model No.: P2T-50M40G-95-T-SFF-OPT18G

PMI Model No. P2T-50M40G-95-T-515-SFF-OPT18G is an absorptive, single pole, two throw, pin diode switch that operates over the 50 MHz to 18 GHz frequency range. This model incorporates a TTL compatible driver for easy system integration. Features include SMA female connectors. Unit size is 1.25" x 1.25" x 0.4" with painted blue finish.

- Frequency Range: 0.5 to 18.0 GHz
- Input Power: +20 dBm Max
- Input VSWR: 2.5:1 Max - Measured 1.76:1
- Insertion Loss: 4.0 dB Max - Measured 2.69 dB
- Isolation: 100 dB Max - Measured 102.76 dB
- Switching Speed: 100 ns Max - Measured 76.26 ns
- DC Voltage: +5 VDC, 120 mA Typ - Measured 40 mA
  -15 VDC, 65 mA Typ - Measured 52 mA

PMI Website Link,
2.0 PMI Model No.: P2T-1G18G-10-R-528-SFF-HIP10W

PMI Model No. P2T-1G18G-10-R-528-SFF-HIP10W is a single pole, two throw, reflective switch capable of operating with an input power of 10 W CW over the 1.0 to 18.0 GHz frequency range. This model features high input power handling capability while offering very fast switching speeds of 40 ns. This switch is compact in size and weight and only consumes 2.5 mA of positive and 2.5 mA of negative DC current making it suitable for a wide range of applications. Features include SMA female connectors, and TTL - Single Line. Unit size is 1.2" x 1.0" x 0.5".

- Frequency: 1.0 to 18.0 GHz
- Input Power: 10 W CW Max
- Input VSWR: 2.0:1 Max - Measured 1.76:1
- Insertion Loss: 3.0 dB Typ - Measured 2.66 dB
- Isolation: 25 dB Typ. - Measured 25.73 dB
- Switching Speed: 100 ns Typ - Measured 40 ns
- DC Voltage: +5 VDC @ 2.5 mA - Measured 2.19 mA
  -28 VDC @ 2.5 mA - Measured 2.25 mA
- Control: Solder Pin, TTL - Single Line

PMI Website Link:
http://www.pmi-rf.com/Products/Switches/P2T-1G18G-10-R-528-SFF-HIP10W.htm

3.0 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 to18.0 GHz frequency range. Features include TNC female connectors. Unit size is 2.00" x 2.00" x 0.75" with painted blue finish.

- Frequency: 6.0 to 18.0 GHz
- Input Power: 1.6 kW Peak - Tested to 130 Watts CW
- Input VSWR: 1.2:1 Max - Measured 1.99:1
- Insertion Loss: 2.2 dB Max - Measured 2.04 dB Max
- Isolation: 40 dB Min - Measured 40 dB
- Switching Speed: 200 ns Max - Measured 165 ns "ON", 95 ns "OFF"
- DC Voltage: +5 VDC @ 300 mA - Measured 265 mA
  -70 VDC @ 60 mA - Measured 1 mA
- Control: Single TTL (TTL "0" J1 - J3 Low Loss)

PMI Website Link,
http://www.pmi-rf.com/Products/switches/P2T-6G18G-40-R-570-TFF-1D6KW.htm

4.0 PMI Model No.: P1T-DC40G-65-T-292FF-1NS-OPT18G-50OHM
**5.0 PMI Model No.: P2T-1G1R1G-25-R-SFF-100W-SM**

PMI Model No. P2T-1G1R1G-25-R-SFF-100W-SM 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 5 kW peak having a 17 µs pulse width and 2% duty cycle. Features include TNC female connectors. Unit size is 3.25" x 2.75" x 0.70".

- **Frequency:** 1.0 to 1.1
- **Input Power:** 100 W average, 5 kW Peak
- **Input VSWR:** 1.5:1 - Measured 1.2:1
- **Insertion Loss:** 0.8 dB Max - Measured 0.32 dB
- **Isolation:** 25 dB Min - Measured 40.26 dB
- **Switching Speed:** 250 ns Typ - Measured 310 ns
- **DC Voltage:** +50 VDC, 50 mA - Measured 10 mA
  +5 VDC, 200 mA - Measured 128 mA

**PMI Website Link,**
http://www.pmi-rf.com/Products/switches/P2T-1G1R1G-25-R-SFF-100W-SM.htm

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**6.0 PMI Model No.: DPX-18G26R5G40G**

PMI Model No. DPX-18G26R5G40G is an ultra small, low loss diplexer for use over the frequency range of 18.0 to 40.0 GHz. This model is designed to have a crossover frequency at 26.5 GHz and greater than 60 dB of rejection. Features include 2.92mm female connectors. Unit size is 0.80" x 0.60" x 0.38".

- **Frequency Range:** 18.0 to 40.0 GHz
- **Insertion Los (Passband):** 2 dB Max - Measured 1.3 dB
- **VSWR (Passband):** 2.5:1 Max - Measured 2.4:1
- Diplexer K Band 1dB Passband: 18.0 GHz, Min, 25.0 GHz Max
- Diplexer Ka Band 1dB Passband: 28.0 GHz Min, 40.0 GHz Max
- Crossover Band: 25.0 GHz Min, 28 GHz Max
- Crossover Excess Attenuation: 5 dB Typ - Measured 4.8 dB
- Stopband Attenuation: 60 dB - Measured 64 dB
- K Band (Stopband): 32.0 to 46.0 GHz
- Ka Nband (Stopband): DC - 22.0 GHz

PMI Website Link,

7.0 PMI Model No.: SDLVA-50M18G-70

PMI Model No. SDLVA-50M18G-70 is an SDLVA (Successive Detection Logarithmic Video Amplifier) operating in the 50 MHz to 18 GHz frequency band. It features a built in voltage variable threshold detector circuit that is set up to match the video output voltage to within 5%. In addition, this model has a TSS of -70 dBm and a dynamic range of 70 dB, all in a package measuring only 2.3" x 2.2" x 0.4".

- Frequency Range: 0.5 to 18.0 GHz
- Flatness: ±2.0 dB Max - Measured ±0.1.4 dB
- VSWR (In/Out): 2.0:1 Max - Measured 1.74:1
- TSS: -70 dBm Typ - Measured -72 dBm
- Video Comparator Output (V0): 5 V Into 1 MΩ, 2.5 V Into 50 Ω Typ
- Video Comparator Threshold Level: Adjustable -60 dBm to 0dBm (Operating Range) Threshold Level = V1 ± 5% and ± 25 mV (Hysteresis)
- Log Range: -70 dBm to 0 dBm Min
- Log Slope: 25 mV/dB (±5 dB) @ 50 Ω Load - Measured +25.43 mV/dB
- Log Linearity: ±1.75 dB - Measured -0.88 dB
- Pulse Range: 100 ns to DC
- Rise Time: 50 ns Max - Measured 47.5 ns
- Recovery Time: 400 μs Max - Measured 296.5 ns
- Supply Voltage:
  - +12 to +15 VDC @ 400 mA - Measured 134 mA
  - -12 to -15 VDC @ 200 mA - Measured 111 mA

PMI Website Link,

8.0 PMI Model No.: PEC4-16-50M18G-4R0-19-15-SFF

PMI Model Number: PEC4-16-50M18G-4R0-19-15-SFF is a 50 MHz to 18.0 GHz compact amplifier. This amplifier is supplied in our standard PEC4 housing. This model provides the following performance. Data is available upon request. Features include SMA female connectors.

- Frequency Range: 0.05 to 18 GHz
- Gain: +14 dB Min. 19 dB Max. - Measured 14.6 dB
- Gain Flatness: ±2.0 dB Max. - Measured 1.3 dB
- Noise Figure: 4.0 dB Typ - Measured 3.41 dB
- OP1dB: +19 dBm Min - Measured 21.12 dBm
9.0 PMI Model No.: HPF18G-DC15G

PMI Model No. HPF18G-DC15G is a low loss ultra-small high pass filter with a passband frequency range of 18.0 to 26.5 GHz and greater than 60 dB rejection from DC to 15.0 GHz. Features include 2.92mm female connectors. Unit size is 0.64" x 0.58" x 0.38".

- Frequency Range: 18.0 to 26.5 GHz
- Insertion Loss: 1.5 dB Max - Measured +0.9 dB
- VSWR: 2.0:1 Max - Measured 1.5:1
- Rejection DC - 15.0 GHz: 60 dB - Measured 63 dB

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

PMI Model No. PIA-12D8G-CD-1 is a Phase Locked, Dielectric Resonator Oscillator with Internal Reference having an output frequency of 12.8 GHz. This model provides a minimum output of +13 dBm with all spurs held to -80dBc and harmonics held to -25 dBc. The frequency stability is ±3 ppm with an internal reference of 100MHz. The phase noise is as follows: -34 dBc/Hz at 1 Hz, -65 dBc/Hz at 10 Hz, -85 dBc at 100 Hz, -10 8dBc/Hz at 1 kHz, -115 dBc/Hz at 10 kHz, -12 0dBc/Hz at 100 kHz, and -140 dBc/Hz at 1 MHz offsets. The oscillator requires +15 VDC and 300mA. There is a built in alarm which outputs a TTL signal when phase locked. The unit measures 2.25" x 2.25" x 0.62".

- Frequency Range: 12.8 GHz (Other frequency available)
- RF Input Power: +13 dBm Min - Measured 13.42 dBm
- VSWR: 1.4:1
- Internal Reference: 100 MHz
- Frequency Stability: ±3 ppm
- Spurious: -80 dBc
- Harmonics: -25 dBc - Measured -43.37 dBc
- Phase Noise @ Offset:
  -34 dBc/Hz @ 1 Hz
  -65 dBc/Hz @ 10 Hz
  -85 dBc/Hz @ 100 Hz
  -108 dBc/Hz @ 1 kHz
-115 dBc/Hz @ 10 kHz
-120 dBc/Hz @ 100 kHz
-140 dBc/Hz @ 1 MHz

- Power Supply: +15 V @ 300 mA Max - measured 300 mA
- Phase Lock Alarm: TTL

PMI Website Link,
http://www.pmi-rf.com/Products/dro/PIA-12D8G-CD-1.htm

11.0 PMI Model No.: 11DP-11R5/16R5-CD-SFF-1

PMI Model No. 11DP-11R5/16R5-CD-SFF-1 is a diplexer that offers passbands at 10.75 to 12.25 GHz and 15.75 to 17.25 GHz. The passband insertion loss is less than 3dB and the VSWR is 1.5:1 maximum. Filter channel 1 has a passband of 10.75 to 12.25 GHz and offers -50 dBc of rejection at 10.25 GHz and -75 dBc of rejection at 13.75 GHz. Filter channel 2 has a passband of 15.75 to 17.25 GHz and offers -50 dBc of rejection at 17.75 GHz and -75 dBc of rejection at 14.25 GHz. Insertion loss flatness of +/-0.3 dB Max. across the passband is achieved with fine tuning and silver plated metal. The housing measures 3.5" x 1.4" x 0.5" and is offered with field removable SMA female connectors.

- Center Frequencies, Fo:
  Filter #1: 11.5 GHz
  Filter #2: 16.5 GHz
- Passband Frequencies:
  Filter #1: 10.75 to 12.25 GHz
  Filter #2: 15.75 to 17.25 GHz
- Passband Insertion Loss: 3 dB Max - Measured 1.67 dB
- Passband Flatness: ±2.0 dB Typ, ±3.0 dB Max - Measured ±0.16 dB
- Passband VSWR: 1.5:1 Max - Measured 1.4:1
- Rejections:
  Filter #1: -50 dBc @ 10.25 GHz - Measured -64 dBc
  -75 dBc @ 13.75 GHz - Measured -85 dBc
  Filter #2: -50 dBc @ 17.75 GHz - Measured -64 dBc
  -75 dBc @ 14.25 GHz - Measured -85 dBc

PMI Website Link,
http://www.pmi-rf.com/Products/filters/11DP-11R5-16R5-CD-SFF-1.htm

12.0 PMI Model No.: 2SFB-8G26G-CD-SFF Rev C

PMI Model No. 2SFB-8G26G-CD-SFF Rev C is a 2 channel switch filter bank providing a low-pass filter that passes 8.62 to 8.70 GHz with a rejection band of 17.24 to 17.4 GHz. In by-pass mode the unit passes signals from 8.0 to 26.5 GHz. This unit is powered by a +5 V single supply and the control logic is TTL/CMOS +5V compatible. The unit has SMA Female connectors in a nickel plated housing measuring 1.5" x 0.8" x 0.5".

- PassBand:
  Frequency Range: 8.62 to 8.70 GHz
Insertion Loss: 5.5 dB Max - Measured 4.53 dB

Flatness: 1.0 dB Max Peak-Peak - Measured 0.1 dB

Isolation of RF Input from Power and Control Inputs:
50 dB Min (Between 8.0 and 26.5 GHz) - Measured >50 dB

VSWR: 2.0:1 Max across frequency range - Measured 1.45:1

Group Delay: 1 ns Max (goal)

- **Reject Band:**
  Frequency Band: 17.24 to 17.4 GHz
  Rejection: 20 dB Min - Measured 40.77 dB

- **Bypass:**
  Frequency Range: 8.0 to 26.5 GHz
  Insertion Loss: 5.0 dB Max within ±2.0 dB of Max pass-band IL - Measured 0.3 dB
  VSWR: 2.0:1 Max across frequency range - Measured 1.97:1

- Input Power Handling (No Damage): +20 dBm CW Max (powered and unpowered)
- Input IP3 (pin = 10 dBm, DeltaF = 2 MHz): +27 dBm Max, +32 dBm Typ
- Voltage: +5V ± 5% @ 100 mA Max - Measured 42 mA@+5V
  +5V ± 5% @ 100 mA
- Logic Input: TTL/CMOS +5V Compatible

PMI Website Link,

*** 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)

- **Low Noise Amplifiers**
- **Threshold 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

Quadrature Couplers

SDLVA's

Switch Matrices

DLVA/ERDLVA

Receiver Front Ends

SMT and QFN Packaging

Rack Mount and Chassis Products

Solid-State Products

Switchable Low-Noise LNA's
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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