1.0 PMI Model No. BPM-2G18G-180-SFF-MB, 2.0 to 18.0 GHz Bi-Phase Modulator

PMM Model No. BPM-2G18G-180-SFF-MB is a Bi-Phase Modulator that operates over the 2.0 to 18.0 GHz frequency range. It has a maximum insertion loss of 5.5 dB and a maximum VSWR of 2.0:1. This model is outfitted with SMA female connectors in a housing measuring 2.25" x 1.60" x 0.60".

- Frequency Range: 2.0 to 18.0 GHz
- Insertion Loss: 5.5 dB Max. - Measured 3.7 dB
- Phase Shift: ±30° - Measured +25.59/-14.99
- Amplitude Balance: ±2.0 dB - Measured +1.98/-0.2
- Phase Shift Control Input:
  - TTL "0" = 0°
  - TTL "1" = 180°
- VSWR: 2.0:1 Max., 1.5:1 Goal - Measured 1.9:1
- Switching Speed: 100 ns Max. - Measured 34.6 ns
- Impedance: 50 Ohms
2.0 PMI Model No. P2T-6G18G-40-R-570-TFF-50WCW, 6.0 to 18.0 GHz, SP2T Reflective Switch

PMI Model No. P2T-6G18G-40-R-570-TFF-50WCW is a Single Pole, Two Throw, Reflective Switch that operates over the 6.0 to 18.0 GHz frequency range. It has a power of 50 W CW (1.5 kW Peak) and a typical switching speed of 1.1 us. This model is outfitted with TNC female connectors and a 9-Pin Micro-D female connector in a housing measuring 2.00" x 2.00" x 0.75".

- Frequency Range: 6.0 to 18.0 GHz
- Power: 50 W CW (1.5 kW Peak)
- Insertion Loss: 2.2 dB Max. at Band Edges for 20% Bandwidth and Typically 1.75 dB Goal. For Mid-Band of 80% of the Bandwidth 2.0 dB Max., and Typically 1.5 dB Goal - Measured 2.18 dB Max.
- Isolation: 40 dB - Measured 41.24 dB Min., 51.27 dB Max.
- Pulse Width: 250 us Max.
- Switching Speed: 1.25 us Max., 1.1 us Typ. (50% TTL to 90% RF & 50% TTL to 10% RF)
- VSWR In/Out: 2:1 Max. - Measured 1.99:1/1.93:1
- Load VSWR: Better than 1.5:1
- DC Voltage & Current:
  - +5 V @ 300 mA
  - -70 V @ 60 mA - Measured 0 mA

3.0 PMI Model No. P2T-6G18G-40-R-570-TFF-120WCW, 6.0 to 18.0 GHz, SP2T Reflective Switch

PMI Model No. P2T-6G18G-40-R-570-TFF-120WCW is a Single Pole, Two Throw, Reflective Switch that operates over the 6.0 to 18.0 GHz frequency range. It has a power of 120 W CW (1.5 kW Peak) and a typical switching speed of 1.1 us. This model is outfitted with TNC female connectors and a 9-Pin Micro-D female connector in a housing measuring 2.00" x 2.00" x 0.75".

- Frequency Range: 6.0 to 18.0 GHz
- Power: 120 W CW (1.5 kW Peak)
- Insertion Loss: 2.2 dB Max. at Band Edges for 20% Bandwidth and Typically 1.75 dB Goal. For Mid-Band of 80% of the Bandwidth 2.0 dB Max., and Typically 1.5 dB Goal - Measured 2.18 dB Max.
- Isolation: 40 dB - Measured 41.24 dB Min., 51.27 dB Max.
- Pulse Width: 250 us Max.
- Switching Speed: 1.25 us Max., 1.1 us Typ. (50% TTL to 90% RF & 50% TTL to 10% RF)
- VSWR In/Out: 2:1 Max. - Measured 1.99:1/1.93:1
- Load VSWR: Better than 1.5:1
- DC Voltage & Current:
PMI Website Link, https://www.pmi-rf.com/product-details/p2t-6g18g-40-r-570-tff-1d6kw

4.0 PMI Model No. P2T-6G18G-40-R-570-TFF-1D6KW, 6.0 to 18.0 GHz, SP2T Reflective Switch

PMI Model No. P2T-6G18G-40-R-570-TFF-1D6KW is a Single Pole, Two Throw, Reflective Switch that operates over the 6.0 to 18.0 GHz frequency range. It has a power of 1.6 kW Peak (125 W CW) and a typical switching speed of 1.1 us. This model is outfitted with TNC female connectors and a 9-Pin Micro-D female connector in a housing measuring 2.00" x 2.00" x 0.75".

- Frequency Range: 6.0 to 18.0 GHz
- Power: 1.6 kW Peak (125 W CW)
- Insertion Loss: 2.2 dB Max. at Band Edges for 20% Bandwidth and Typically 1.75 dB Goal. For Mid-Band of 80% of the Bandwidth 2.0 dB Max., and Typically 1.5 dB Goal - Measured 2.18 dB Max.
- Isolation: 40 dB - Measured 41.24 dB Min., 51.27 dB Max.
- Pulse Width: 250 us Max.
- Switching Speed: 1.25 us Max., 1.1 us Typ. (50% TTL to 90% RF & 50% TTL to 10% RF)
- VSWR In/Out: 2:1 Max. - Measured 1.99:1/1.93:1
- Load VSWR: Better than 1.5:1
- DC Voltage & Current:
  - +5 V @ 300 mA
  - -70 V @ 60 mA - Measured 0 mA

PMI Website Link, https://www.pmi-rf.com/product-details/p2t-6g18g-40-r-570-tff-1d6kw

5.0 PMI Model No. LPF1R25-22R5-SFF, DC to 1.25 GHz Low Pass Filter

PMI Model No. LPF1R25-22R5-SFF is a DC to 1.25 GHz Microstrip Low Pass Filter. It has a maximum VSWR of 1.8:1 with a maximum insertion loss of 1.5 dB. The housing is measured at 3.50" x 0.75" x 0.30".

- Frequency Range: DC to 1.25 GHz
- Insertion Loss: 1.0 dB Goal, 1.5 dB Max.
- VSWR: 1.5:1 Goal, 1.8:1 Max. - Measured 1.3:1
- Rejection from 2.0 to 2.5 GHz: 50 dBC Min.
- Impedance: 50 Ohms


6.0 PMI Model No. LPF2-2R54-SFF, DC to 2.0 GHz Low Pass Filter

PMI Model No. LPF2-2R54-SFF is a DC to 2.0 GHz Microstrip Low Pass Filter. It has a maximum VSWR of 1.8:1 with a maximum insertion loss of 1.5 dB. The housing is measured at 3.50" x 0.75" x 0.30".
- Frequency Range: DC to 2.0 GHz
- Insertion Loss: 1.0 dB Goal, 1.5 dB Max.
- VSWR: 1.5:1 Goal, 1.8:1 Max.
- Rejection from 2.5 to 4.0 GHz: 50 dBC Min.
- Impedance: 50 Ohms

**PMI Website Link,**
https://www.pmi-rf.com/product-details/lpf2-2r54-sff

### 7.0 PMI Model No. LPF3R5-47-SFF, DC to 3.5 GHz Low Pass Filter

PMI Model No. LPF3R5-47-SFF is a DC to 3.5 GHz Microstrip Low Pass Filter. It has a maximum VSWR of 1.8:1 with a maximum insertion loss of 1.5 dB. The housing is measured at 3.00" x 0.75" x 0.30".

- Frequency Range: DC to 3.5 GHz
- Insertion Loss: 1.0 dB Goal, 1.5 dB Max.
- VSWR: 1.5:1 Goal, 1.8:1 Max.
- Rejection from 4.0 to 7.0 GHz: 50 dBC Min.
- Impedance: 50 Ohms

**PMI Website Link,**
https://www.pmi-rf.com/product-details/lpf3r5-47-sff

### 8.0 PMI Model No. LPF6-712-SFF, DC to 6.0 GHz Low Pass Filter

PMI Model No. LPF6-712-SFF is a DC to 6.0 GHz Microstrip Low Pass Filter. It has a maximum VSWR of 1.8:1 with a maximum insertion loss of 1.5 dB. The housing is measured at 3.00" x 0.75" x 0.30".

- Frequency Range: DC to 6.0 GHz
- Insertion Loss: 1.0 dB Goal, 1.5 dB Max.
- VSWR: 1.5:1 Goal, 1.8:1 Max. - Measured 1.4:1
- Rejection from 7.0 to 12.0 GHz: 50 dBC Min.
- Impedance: 50 Ohms

**PMI Website Link,**

### 9.0 PMI Model No. LPF10-1220-SFF, DC to 10.0 GHz Low Pass Filter

PMI Model No. LPF10-1220-SFF is a DC to 10.0 GHz Microstrip Low Pass Filter. It has a maximum VSWR of 1.8:1 with a maximum insertion loss of 1.5 dB. The housing is measured at 2.50" x 0.75" x 0.30".

- Frequency Range: DC to 10.0 GHz
- Insertion Loss: 1.0 dB Goal, 1.5 dB Max.
- VSWR: 1.5:1 Goal, 1.8:1 Max.
- Rejection from 12.0 to 20.0 GHz: 50 dBC Min.
- Impedance: 50 Ohms

**PMI Website Link,**
10.0 PMI Model No. LM-100M20G-18-10W-SFF-MAH, 0.1 to 20.0 GHz Limiter

PMI Model No. LM-100M20G-18-10W-SFF-MAH is a Limiter that operates over the 0.1 to 20.0 GHz frequency range. The maximum insertion loss is 2.0 dB and the maximum recovery time is 10 ns. The housing measures 0.50" x 0.50" x 0.22" and is supplied with SMA female connectors.

- Frequency Range: 0.1 to 20.0 GHz
- Insertion Loss: 3.0 dB Max. - Measured 1.83 dB
- VSWR In/Out: 2.0:1 Max. - Measured 1.86:1
- Max Peak Power & CW Power: 10 W Pulsed, 100 us Pulse Width, 10% Duty Cycle, 1 W CW
- Leakage Power: <18 dBm Max. - Measured 14.6 dBm
- Recovery Time: <115 ns - Measured 9.38 ns

PMI Website Link,
https://www.pmi-rf.com/product-details/lm-100m20g-18-10w-sff-mah

11.0 PMI Model No. LM-20M20G-18-20WP-5W-MAH, 20 MHz to 20.0 GHz Limiter

PMI Model No. LM-20M20G-18-20WP-5W-MAH is a Limiter that operates over the 20 MHz to 20.0 GHz frequency range. It has a maximum insertion loss of 2.5 dB and a maximum recovery time of 25 ns. This model is outfitted with SMA female connectors in a housing measuring 0.50" x 0.50" x 0.22".

- Frequency Range: 20 MHz to 20.0 GHz
- Insertion Loss: 2.5 dB Max. - Measured 1.83 dB
- VSWR In/Out: 2.0:1 Max. - Measured 1.86:1
- Max Peak Power & CW Power: 20 W Pulsed, 100 us Pulse Width, 10% Duty Cycle, 5 W CW
- Leakage Power: <18 dBm for 20 W Peak Power, 100 us PW, 10% Duty Cycle & <16 dBm for 5 W CW - Measured 14.8 dBm
- Recovery Time: <25 ns - Measured 9.38 ns

PMI Website Link,
https://www.pmi-rf.com/product-details/lm-20m20g-18-20wp-5w-mah

12.0 PMI Model No. APD-4-122-292FF, 1.0 to 22.0 GHz, 4-Way Power Divider

PMI Model No. APD-4-122-292FF is a 4-Way Power Divider with a frequency range of 1.0 to 22.0 GHz. The maximum insertion loss is 3.5 dB and the typical isolation is 12 dB. This model is offered in a housing measuring 3.50" x 2.00" x 0.40" and is outfitted with 2.92 mm female connectors.

- Frequency Range: 1.0 to 22.0 GHz
- Insertion Loss:
  - 3.0 dB Max. (1.0 to 18.0 GHz) - Measured 2.9 dB
  - 3.5 dB Max. (18.0 to 22.0 GHz) - Measured 3.3 dB
- Isolation:
12 dB Typ. (1.0 to 2.0 GHz) - Measured 12.1 dB
18 dB Typ. (2.0 to 22.0 GHz)
- VSWR (Input): 2.0:1 Max. - Measured 1.96:1
- VSWR (Output): 1.85 Max. - Measured 1.84:1
- Amplitude Balance:
  - ±0.3 dB Typ.
  - ±0.7 dB Max.
- Phase Balance:
  - ±5.0° Max. (1.0 to 18.0 GHz) - Measured +3.89°/-4.58°
  - ±8.0° Max. (18.0 to 22.0 GHz) - Measured +7.08°/-5.77°
- Average Power:
  - 25 W (Into 1.2:1 Load VSWR)
  - 7.5 W (Into 2.0:1 Load VSWR)
  - 0.75 W (Into ∞:1 Load VSWR)

PMI Website Link,

13.0 PMI Model No. APD-4-218-292FF, 2.0 to 18.0 GHz, 4-Way Power Divider

PMI Model No. APD-4-218-292FF is a 4-Way Power Divider that operates over the 2.0 to 18.0 GHz frequency range. It has a maximum insertion loss of 3.0 dB and a minimum isolation of 18 dB. It is supplied with 2.92 mm female connectors in a housing measuring 3.50" x 2.00" x 0.40".

- Frequency Range: 2.0 to 18.0 GHz
- Insertion Loss:
  - 2.4 dB Typ. - Measured 2.3 dB
  - 3.0 dB Max.
- Isolation: 18 dB Min.
- VSWR (Input): 2.0:1 Max. - Measured 1.96:1
- VSWR (Output): 1.85 Max. - Measured 1.84:1
- Amplitude Balance:
  - ±0.3 dB Typ. - Measured +0.14/-0.22
  - ±0.7 dB Max.
- Phase Balance:
  - ±3.0° Max. (2.0 to 8.0 GHz) - Measured +1.95°/-2.74°
  - ±5.0° Max. (8.0 to 18.0 GHz) - Measured +3.89°/-4.58°
- Average Power:
  - 25 W (Into 1.2:1 Load VSWR)
  - 7.5 W (Into 2.0:1 Load VSWR)
  - 0.75 W (Into ∞:1 Load VSWR)

PMI Website Link,

14.0 PMI Model No. APD-4-118-292FF, 1.0 to 18.0 GHz, 4-Way Power Divider

PMI Model No. APD-4-118-292FF is a 4-Way Power Divider with a frequency range 1.0 to 18.0 GHz. It has a maximum insertion loss of 3.0 dB and a typical isolation of of 12 dB. It is supplied with 2.92 mm female connectors in a housing measuring 3.50" x 2.00" x 0.40".

- Frequency Range: 1.0 to 18.0 GHz
- Insertion Loss:
15.0 PMI Model No. PMC-9D5G10D1G-7D6-SFF, 9.5 to 10.1 GHz, Monopulse Comparator

PMI Model No. PMC-9D5G10D1G-7D6-SFF is a Monopulse Comparator with a frequency range 9.5 to 10.1 GHz. It has a maximum insertion loss of 7.6 dB and a minimum isolation of 20 dB. It is supplied with SMA female connectors in a housing measuring 3.48" x 3.48" x 0.43".

- Frequency Range: 9.5 to 10.1 GHz
- Insertion Loss: 7.6 dB Max. - Measured 7.5 dB
- Amplitude Balance: ±0.5 dB Max. - Measured ±0.4 dB
- Phase Balance: ±5° Max. - Measured ±3.8°
- Isolation: 20 dB Min. - Measured 23 dB
- VSWR: 1.5:1 Max. - Measured 1.3:1
- Power Handling:
  - Average: 10 W Max. (Port A, B, C & D)
  - Peak: 0.1 kW Max.
- Impedance: 50 Ohms

PMI Website Link,
https://www.pmi-rf.com/product-details/PMC-9D5G10D1G-7D6-SFF

16.0 PMI Model No. PMC-24-7D5-SFF, 2.0 to 4.0 GHz Monopulse Comparator

PMI Model No. PMC-24-7D5-SFF is a Monopulse Comparator with a frequency range 2.0 to 4.0 GHz. It has a maximum amplitude balance of ±1.0 dB and a minimum isolation of 18 dB. It is supplied with SMA female connectors in a housing measuring 3.23" x 3.23" x 0.43".

- Frequency Range: 2.0 to 4.0 GHz
- Insertion Loss: 0.8 dB Typ. (If input signals at ports A, B, C, and D are equal Amplitude or Power and Inphase with an output at Port AZΣ) - Measured 0.5 dB
- Insertion Loss: 7.5 dB Max. (If input signals at port A, B, C, or D and all other ports are terminated to 50 Ohms with an output at ports ELΔ, AZΣ, AQ, or AZΔ)
17.0 PMI Model No. PMC-33D5-6D8-SFF, 3.0 to 3.5 GHz Monopulse Comparator

PMI Model No. PMC-33D5-6D8-SFF is a Monopulse Comparator with a frequency range 3.0 to 3.5 GHz. It has a maximum amplitude balance of ±0.4 dB and a minimum isolation of of 23 dB. It is supplied with SMA female connectors in a housing measuring 3.23" x 3.23" x 0.43".

- Frequency Range: 3.0 to 3.5 GHz
- Insertion Loss: 0.8 dB Typ. (If input signals at ports A, B, C, and D are equal Amplitude or Power and Inphase with an output at Port AZΣ) - Measured 0.5 dB
- Insertion Loss: 6.8 dB Max. (If input signals at port A, B, C, or D and all other ports are terminated to 50 Ohms with an output at ports ELΔ, AZΣ, AQ, or AZΔ) - Measured 6.7 dB
- Amplitude Balance: ±0.4 dB Max. - Measured ±0.3 dB
- Phase Balance: ±5° - Measured ±2.2°
- Isolation: 23 dB Min.
- VSWR: 1.25:1 Max. - Measured 1.2:1
- Power Handling:
  - Average: 10 W Max. (Port A, B, C, & D)
  - Peak: 0.1 kW Max.
- Impedance: 50 Ohms

PMI Website Link, https://www.pmi-rf.com/product-details/pmc-33d5-6d8-sff

18.0 PMI Model No. PMC-33D7-6D8-SFF, 3.0 to 3.7 GHz Monopulse Comparator

PMI Model No. PMC-33D7-6D8-SFF is a Monopulse Comparator with a frequency range 3.0 to 3.7 GHz. It has a maximum amplitude balance of ±0.5 dB and a minimum isolation of of 24 dB. It is supplied with SMA female connectors in a housing measuring 3.23" x 3.23" x 0.43".

- Frequency Range: 3.0 to 3.7 GHz
- Insertion Loss: 0.8 dB Typ. (If input signals at ports A, B, C, and D are equal Amplitude or Power and Inphase with an output at Port AZΣ) - Measured 0.4 dB
- Insertion Loss: 6.8 dB Max. (If input signals at port A, B, C, or D and all other ports are terminated to 50 Ohms with an...
output at ports ELΔ, AZΣ, AQ, or AZΔ) - Measured 6.7 dB
• Amplitude Balance: ±0.5 dB Max. - Measured ±0.2 dB
• Phase Balance: ±7° - Measured ±2°
• Isolation: 24 dB Min.
• VSWR: 1.3:1 Max. - Measured 1.2:1
• Power Handling:
  ○ Average: 10 W Max. (Port A, B, C, & D)
  ○ Peak: 0.1 kW Max.
• Impedance: 50 Ohms

PMI Website Link,
https://www.pmi-rf.com/product-detailsPMC-33d7-6d8-sff

19.0 PMI Model No. PMC-9G10G-7D9-SFF, 9.0 to 10.0 GHz Monopulse Comparator

PMI Model No. PMC-9G10G-7D9-SFF is a Monopulse Comparator with a frequency range 9.0 to 10.0 GHz. It has a maximum amplitude balance of ±0.6 dB and a minimum isolation of 18 dB. It is supplied with SMA female connectors in a housing measuring 3.48" x 3.48" x 0.43".

• Frequency Range: 9.0 to 10.0 GHz
• Insertion Loss: 1.9 dB Max. (If input signals at ports A, B, C, and D are equal amplitude or power and inphase with an output at Port AZΣ)
• Insertion Loss: 7.9 dB Max. (If input signals at port A, B, C, or D and all other ports are terminated to 50 Ohms with an output at ports ELΔ, AZΣ, ΔQ, or AZΔ) - Measured 7.1 dB
• Amplitude Balance: ±0.6 dB Max. - Measured ±0.2 dB
• Phase Balance: ±6° Max. - Measured ±3°
• Isolation: 18 dB Min. - Measured 24 dB
• VSWR: 1.6:1 Max. - Measured 1.28:1
• Power Handling:
  ○ Average: 10 W Max. (Port A, B, C, & D)
  ○ Peak: 0.1 kW Max.
• Impedance: 50 Ohms

PMI Website Link,
https://www.pmi-rf.com/product-detailsPMC-9g10g-7d9-sff

20.0 PMI Model No. PLNA-35-100M18G-P1dB24-120VAC, 0.1 to 18.0 GHz Portable Amplifier

PMI Model No. PLNA-35-100m18G-P1dB24-120VAC is a Portable Amplifier with a frequency range 0.1 to 18.0 GHz. It has a minimum gain of 35 dB and a typical noise figure of 3.5 dB. It is supplied with N female connectors in a housing measuring 3.50" x 3.50" x 1.75".

• Frequency Range: 0.1 to 18.0 GHz
• Gain: 35 dB Min. - Measured 36.77 dB
• Gain Flatness: ±2.5 dB Typ.
• Noise Figure: 3.5 dB Typ. - Measured 2.58 dB
• OP1dB: 25 dBm Typ., 22 dBm Min.
- Input/Output VSWR: 2.0:1 Max. - Measured 1.91:1/1.58:1
- Maximum RF Input: +10 dBm Max.
- AC Voltage Supply: 120 VAC
- AC Connector: 3 Pin IEC
- On/Off Switch: Vandel Switch Illuminated

**PMI Website Link,**
[https://www.pmi-rf.com/product-details/plna-35-100m18g-p1db24-120vac](https://www.pmi-rf.com/product-details/plna-35-100m18g-p1db24-120vac)

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