



# Planar Monolithics Industries, Inc.

## State of the Art High Isolation & Broadband Switches, 0.1 to 50 GHz

PMI's new designs operate from 0.1 to 50.0 GHz featuring low insertion loss and high isolation in a slimline package with 2.4mm connectors. These modules incorporate a TTL compatible driver for ease of system integration. Custom designs can be supplied using any of our catalog or customer driven specifications.

<http://www.pmi-rf.com/Products/switches/standardmodels.htm>

### Model P2T-100M50G-100-T, Absorptive, SP2T

<http://www.pmi-rf.com/Products/switches/P2T-100M50G-100-T.htm>

Frequency	0.1 to 50.0 GHz
Insertion Loss	5.0 dB (0.1 to 18.0 GHz) Typ - Measured 3.0 dB 6.0 dB (18.0 to 40.0 GHz) Typ - Measured 5.2 dB 9.0 dB (40.0 to 50.0 GHz) Typ - Measured 9.1 dB
VSWR	3.0:1 (@ 50.0 GHz) Typ - Measured 2.54:1
Isolation	70 dB (0.1 to 1.0 GHz) Typ - Measured 103.7 dB 100 dB (1 to 18.0 GHz) Typ - Measured 107.8 dB 80 dB (18.0 to 40.0 GHz) Typ - Measured 90.8 dB 80 dB (40.0 to 50.0 GHz) Typ - Measured 95.9 dB
RF Input Power	20 dBm Max



Package: 1.0"x0.75"x0.40"  
Finish: Gold Plated  
RF Connectors: 2.4mm female  
DC Voltage: +5 V @ 88 mA  
-5 V @ 63 mA  
Switching Speed: 33 ns

### Model P4T-100M50G-100-T-RD, Absorptive, SP4T

<http://www.pmi-rf.com/products/switches/P4T-100M50G-100-T-RD.htm>

Frequency	0.1 to 50.0 GHz
Insertion Loss	5.0 dB (0.1 to 18.0 GHz) Typ - Measured 3.2 dB 8.0 dB (18.0 to 40.0 GHz) Typ - Measured 6.2 dB 14.0 dB (40.0 to 50.0 GHz) Typ - Measured 9.1 dB
VSWR	3.0:1 (@ 50.0 GHz) Typ - Measured 2.75:1
Isolation	70 dB (0.1 to 18.0 GHz) Typ - Measured 110.5 dB 100 dB (18.0 to 40.0 GHz) Typ - Measured 102.2 dB 80 dB (40.0 to 50.0 GHz) Typ - Measured 95.9 dB
RF Input Power	20 dBm Max



Package: 1.25"x1.25"x0.40"  
Finish: Gold Plated  
RF Connectors: 2.4mm female  
DC Voltage: +5 V @ 154 mA  
-5 V @ 135 mA  
Switching Speed: 45 ns

### Model: P16T-100M50G-100-T-I, Absorptive, SP16T

<http://www.pmi-rf.com/Products/switches/P16T-100M50G-100-T-I.htm>

Frequency	0.1 to 50.0 GHz
Insertion Loss	8.0 dB (0.1 to 18.0 GHz) Typ - Measured 12.5 dB 12.5 dB (18.0 to 40.0 GHz) Typ - Measured 17.0 dB 18.0 dB (40.0 to 50.0 GHz) Typ - Measured 20.0 dB
VSWR	3.5:1 (@ 50.0 GHz) Typ - Measured 3.5:1
Isolation	70 dB (0.1 to 18.0 GHz) Typ - Measured 84 dB 90 dB (1.0 to 18.0 GHz) Typ - Measured 92 dB 80 dB (18.0 to 40.0 GHz) Typ - Measured 72 dB 70 dB (40.0 to 50.0 GHz) Typ - Measured 61 dB
RF Input Power	20 dBm Max



Package: 12.00"x5.50"x0.65"  
Finish: Gold Plated  
RF Connectors: 2.4mm female  
DC Voltage: +5 V @ 710 mA  
-5 V @ 680 mA  
Switching Speed: 90 ns

Amplifiers – Solid State

Attenuators – Variable/  
Programmable

Couplers (Quadrature,  
180° & Directional)

Detectors – RF/Microwave

DLVAs, ERDLVAs  
& SDLVAs

DTOs, VCOs, PLO, DROs,  
& Frequency Synthesizers

Filters & Switched  
Filter Banks

Form, Fit, Functional  
Products & Services

Frequency Discriminators  
& IFMs

Integrated MIC/MMIC  
Assemblies (IMAs)

IQ Vector Modulators

Limiters – RF/Microwave

Log Amplifiers

Millimeter Wave  
Components  
(Up to 50 GHz)

Miscellaneous Products

Multifunction Integrated  
Assemblies (MIAs)

Phase Shifters & Bi-Phase  
Modulators

Power Dividers/Combiners  
(Passive & Active)

Pulse Modulators (SPST)

Rack & Chassis Mount  
Products

Receiver Front Ends  
& Transceivers

SDLVAs, ERDLVAs  
& DLVAs

Single Side Band  
Modulators

SMT & QFN Products

Switch Matrices

Switched Filter Banks

Switches – Solid State

Systems – Fly Eye Radars

Threshold Detectors

USB Products



Walter E. Washington Convention Center  
Conference: March 12-15, 2018  
Exhibition: March 13-15, 2018  
Booth #2420  
2018.satshow.com

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