

1.0 to 1.1GHz, 40W, SPDT PIN Diode Solid State Switch



TECHNICAL DATASHEET

P2T-1G1R1G-25-R-TFF-40W

PMI Model No. P2T-1G1R1G-25-R-TFF-40W is a single pole, two throw, hermetically sealed, reflective switch designed to operate over the 1.0 to 1.1GHz frequency range. This model is designed to handle 40 watts average input power and 4KW peak having a 3usec pulse width and 1% duty cycle. The switch offers fast switching speeds of 300nsec maximum, low insertion loss of 0.4dB typically and high isolation of 37dB typically. The DC supplies are +50VDC, 18mA typical and +5VDC, 128mA typical. The housing measures 3.92" x 2.68" x 0.70" and is supplied with TNC Female connectors.

Features

- 1.0 to 1.1 GHz
- 0.8dB Insertion Loss
- 275ns Rise Time

- 4KW peak/40W Average
- VSWR 2.0:1 Max.
- 25dB Isolation

Applications

• EW Systems • Radars • UAVs & UGVs • Communications • Test Equipment • Laboratories

Electrical Specifications

FrequencyPower4kW Peak

Average Power 40W

• Insertion Loss 0.8dB max – Measured 0.4dB

Isolation
 25dB min. – Measured 37dB

VSWR 1.5:1 – Measured 1.2:1

Rise Time 275ns typ. (10% to 90% RF)

Duty Cycle 1%

Pulse Width 3usPRF 600Hz

Switching Speed 300ns max
Switching Rate 2kHz Max.

Cold Switching Yes

• Control TTL

Power Supply
 +50V @ 50mA - 20mA typ.
 +5V @ 200mA -128mA typ.

Connectors
 TNC Female (J1, J2, J3), 9-Pin Micro D

(DC/Control)

Size 3.92" x 2.68" x 0.70"

Environmental Ratings

Temperature: -40°C to +55 °C Operating
 -54°C to +125 °C Non-Operating

Environmental: MIL-STD-810EEMI/EMC: MIL-STD-461

West Coast Operation:

4921 Robert J. Mathews Pkwy, Suite 1 El Dorado Hills, CA 95762 USA Tel: 916-542-1401 Fax: 916-265-2597

ISO9001 REGISTERED

Web: www.pmi-rf.com Email: sales@pmi-rf.com

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East Coast Operation:

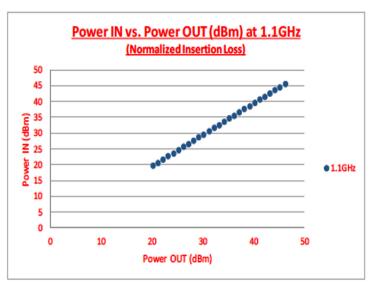


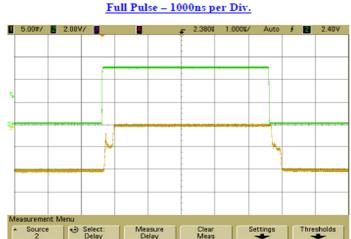
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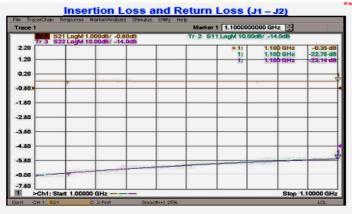
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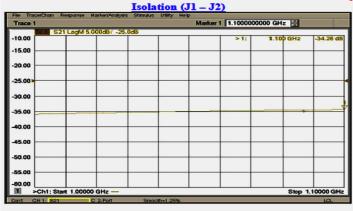
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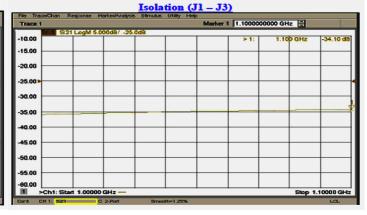




Green Trace: TTL Signal Yellow Trace: RF Signal







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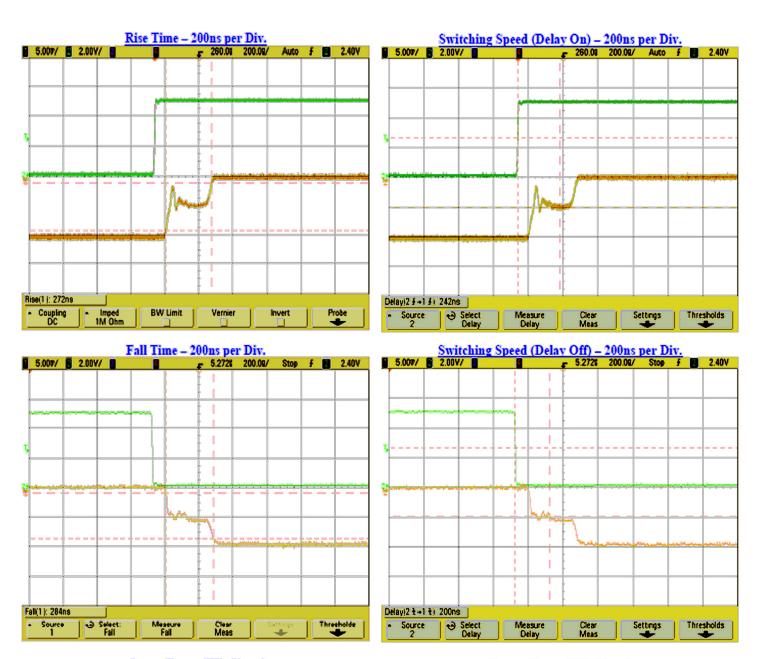


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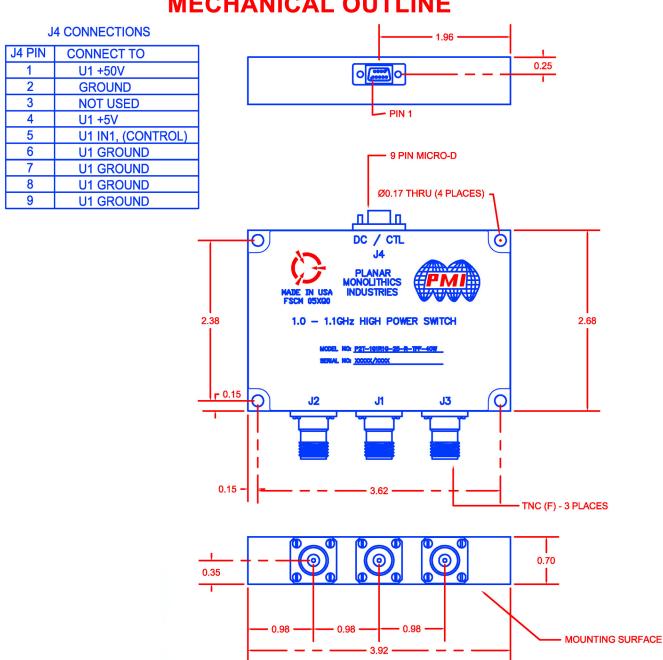
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MECHANICAL OUTLINE



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