



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

1.0 to 1.1GHz 4kW Solid-State SPDT Switch with <300nsec Speed PMI Model No. 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, 63mA typical. The housing measures 3.92" x 2.68" x 0.70" and is supplied with TNC Female connectors.

Frequency	1.0 to 1.1GHz
Power	4KW Peak
Average Power	40W
Insertion Loss	0.8dB max – Measured 0.4dB
Isolation	25dB min
VSWR	1.5:1 – Measured 1.2:1
Rise Time	From 10% to 90% RF
Duty Cycle	1%
Pulse Width	3uS
PRF	600Hz
Switching Speed	300ns max
Switching Rate	2KHz
Cold Switching	Yes
Control	TTL
Power Supply	+50V @ 50mA – 18mA typ. +5V @ 200mA – 63mA typ. -12V @ 30mA – 0mA (Not Used)
Connectors	TNC Female (J1, J2, J3), 9-Pin Micro D (DC/Control)
Size	3.92" x 2.68" x 0.70"

Temperature:	-40°C to +55 °C Operating -54°C to +125 °C Non-Operating
Environmental:	MIL-STD-810E
EMI/EMC:	MIL-STD-461

PLANAR MONOLITHICS INDUSTRIES, INC.

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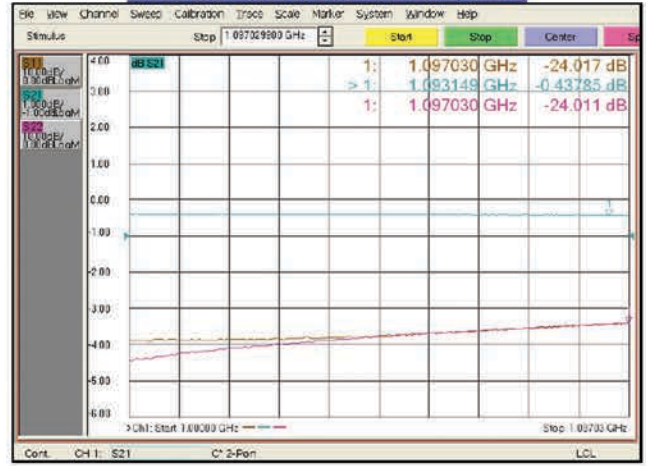
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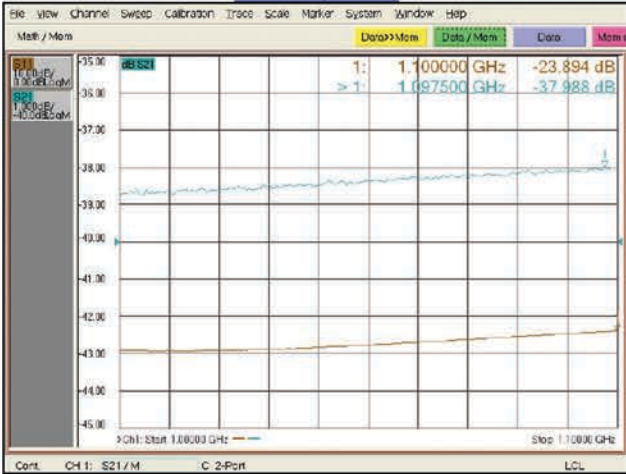
Insertion Loss and Return Loss (J1 - J2)



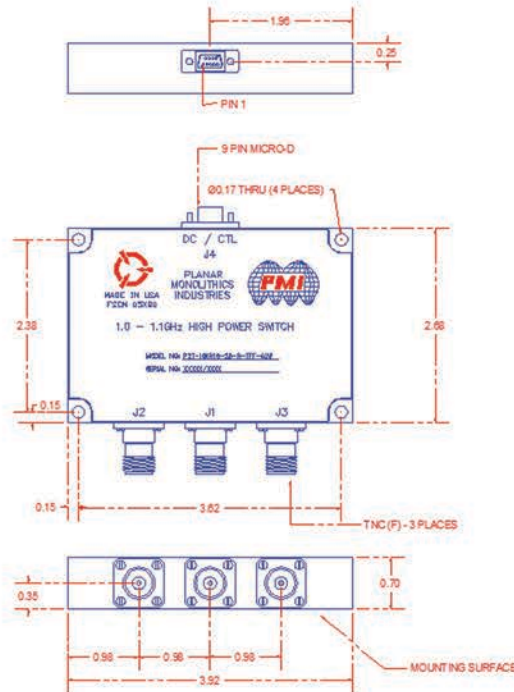
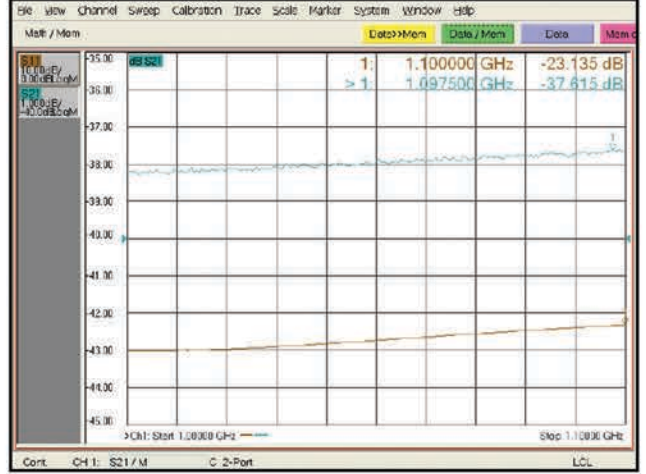
Insertion Loss and Return Loss (J1 - J3)



Isolation (J1 - J2)



Isolation (J1 - J2)



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