



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

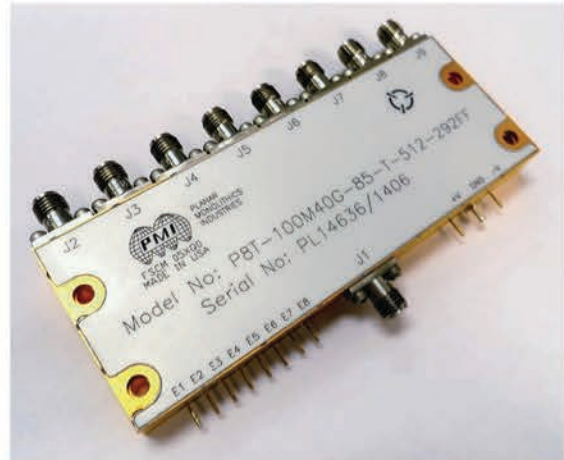
ISO9001:2008 Certified

May 21, 2014

0.1 to 40.0GHz Absorptive SP8T Ultra-High Speed Switch

PMI Model No. P8T-100M40G-85-T-512-292FF

PMI Model No. P8T-100M40G-85-T-512-292FF is a high speed, single pole, eight throw, absorptive switch operating over the frequency range of 100MHz to 40.0GHz. It is capable of switching within 30ns and has over 90dB of isolation up to 18GHz, 80dB up to 26.5GHz and 70dB up to 40GHz. This model is supplied with 2.92mm female connectors in a gold plated housing measuring 4.0" x 1.5" x 0.4".



Frequency	0.1 to 40.0GHz
Isolation	90dB min (0.1 to 18.0GHz) 80dB min (18.0 to 26.5GHz) 70dB min (26.5 to 40.0GHz)
Insertion Loss	10dB max 6dB typ (0.1 to 18.0GHz) 7dB typ (18.0 to 26.5GHz) 9.5dB typ (26.5 to 40.0GHz)
VSWR In/Out	2.5:1 max.
Operating Input Power	+20dBm CW
Switching Speed	100ns max – Measured 30ns
DC Voltage and Current	+5VDC @ 180mA – Measured – 67mA -12VDC @ 65mA
Control Signal	Eight Line TTL E1 Controls J1-J2 E2 Controls J1-J3 E3 Controls J1-J4 E4 Controls J1-J5 E5 Controls J1-J6 E6 Controls J1-J7 E7 Controls J1-J8 E8 Controls J1-J9 "0" Insertion Loss "1" Isolation
Connectors	2.92mm (F)
Finish	Gold Plated
Size	4.0" x 1.5" x 0.4"

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F Grove Road, Frederick,
Maryland 21704 USA |

Tel: 301-662-5019 | Fax: 301-662-1731

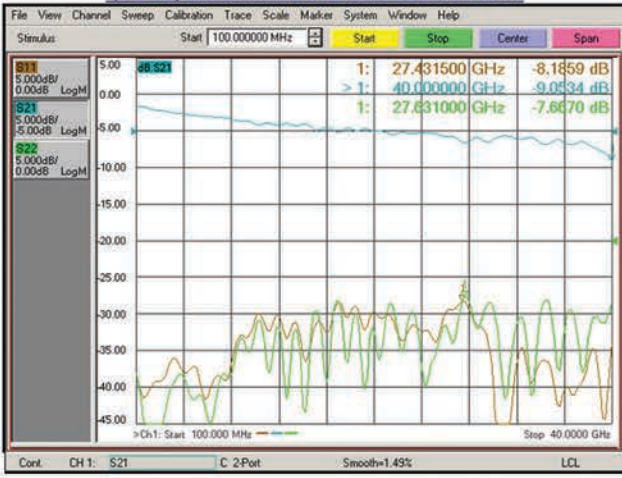
4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

Tel: 916-542-1401 | Fax: 916-265-2597

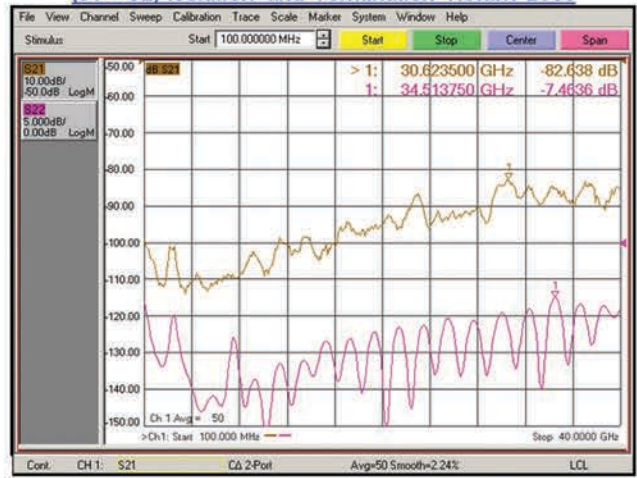
Email: sales@pmi-rf.com | www.pmi-rf.com

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(J1-J2) Insertion Loss and Return Loss



(J1 - J2) Isolation and Termination Return Loss

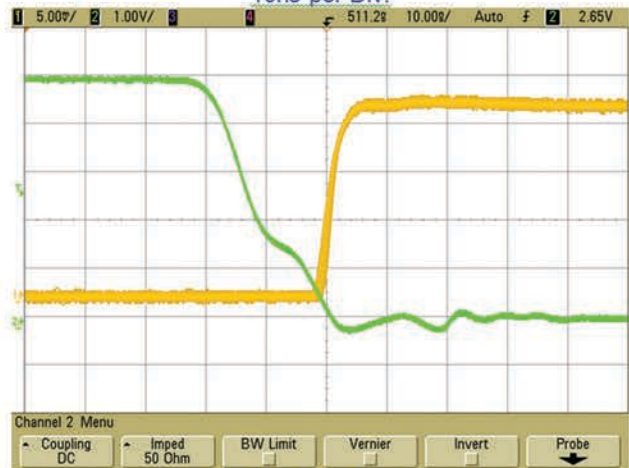


OFF Delay
10ns per Div.

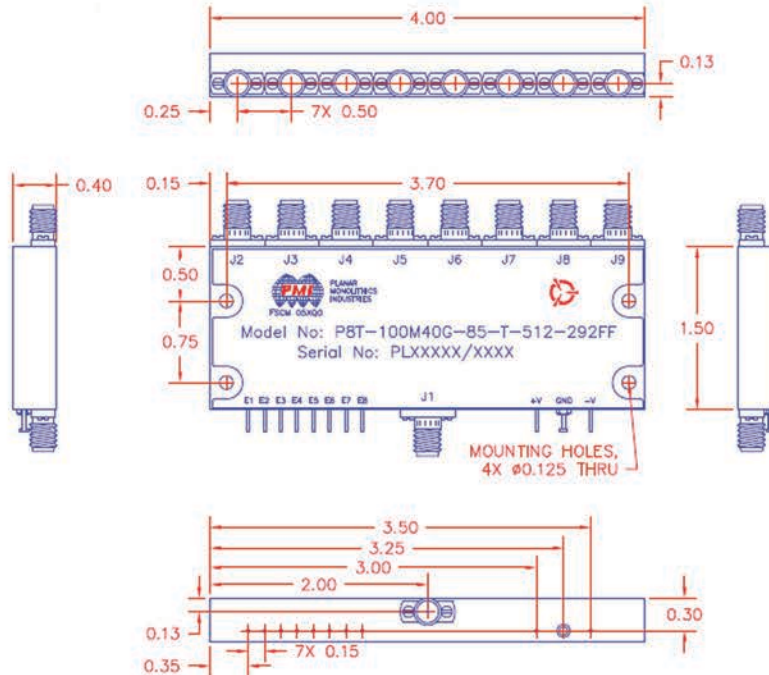


GREEN TRACE: TTL SIGNAL
YELLOW TRACE: RF SIGNAL

ON Delay
10ns per Div.



GREEN TRACE: TTL SIGNAL
YELLOW TRACE: RF SIGNAL



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