



**Typical Characteristics
On
P1T-500M40G-55-T-292FF-75DB**

PMI MODEL P1T-500M40G-55-T-292FF-75DB IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns. THE FREQUENCY RANGE IS 500 MHz TO 40 GHz. THIS SWITCH HAS > 75 dB ISOLATION.



April 03, 2017

Designed By:

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Tested & Reported By:

Sebastián Palacio / Alfredo López



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DESCRIPTION

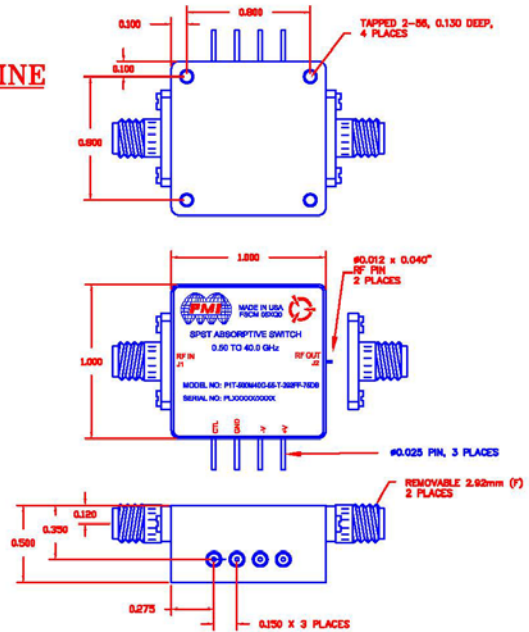
PMI MODEL P1T-500M40G-55-T-292FF-75DB IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 100 ns. THE FREQUENCY RANGE IS 500 MHz TO 40 GHz. THIS SWITCH HAS > 75 dB ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 500 MHz TO 40 GHz
- ISOLATION: 75 dB MIN
- INSERTION LOSS: 6.5 dB MAX
- VSWR IN / OUT: 2.5:1 TYP
- INPUT POWER: +20 dBm CW MAX
- RF SWITCHING SPEED: 100 ns MAX (10% TO 90% RF)
- DC VOLTAGE: ±5 V
- CONTROL SIGNAL: TTL COMPATIBLE
0 VDC ON
+5 VDC OFF
- CONNECTORS IN/OUT: 2.92 mm (F)
- SIZE: (L) 1.0" X (W) 1.0" X (H) 0.5"
- FINISH: PAINTED BLUE

MECHANICAL OUTLINE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	01/06/11	
A1		ECN # 17-0067	6/8/11	



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXXX ±0.020
XXXXX ±0.010

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	SPU	01/06/11	PRODUCT FEATURE		
CHECKED			P1T-500M40G-55-T-292FF-75DB		
ISSUED			SIZE	PSGM NO.	DWG NO.
			A	05XQ0	27031640
			SCALE	N: S	SHEET 1 OF 1
					REV. A1



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Typical Data @ 25°C

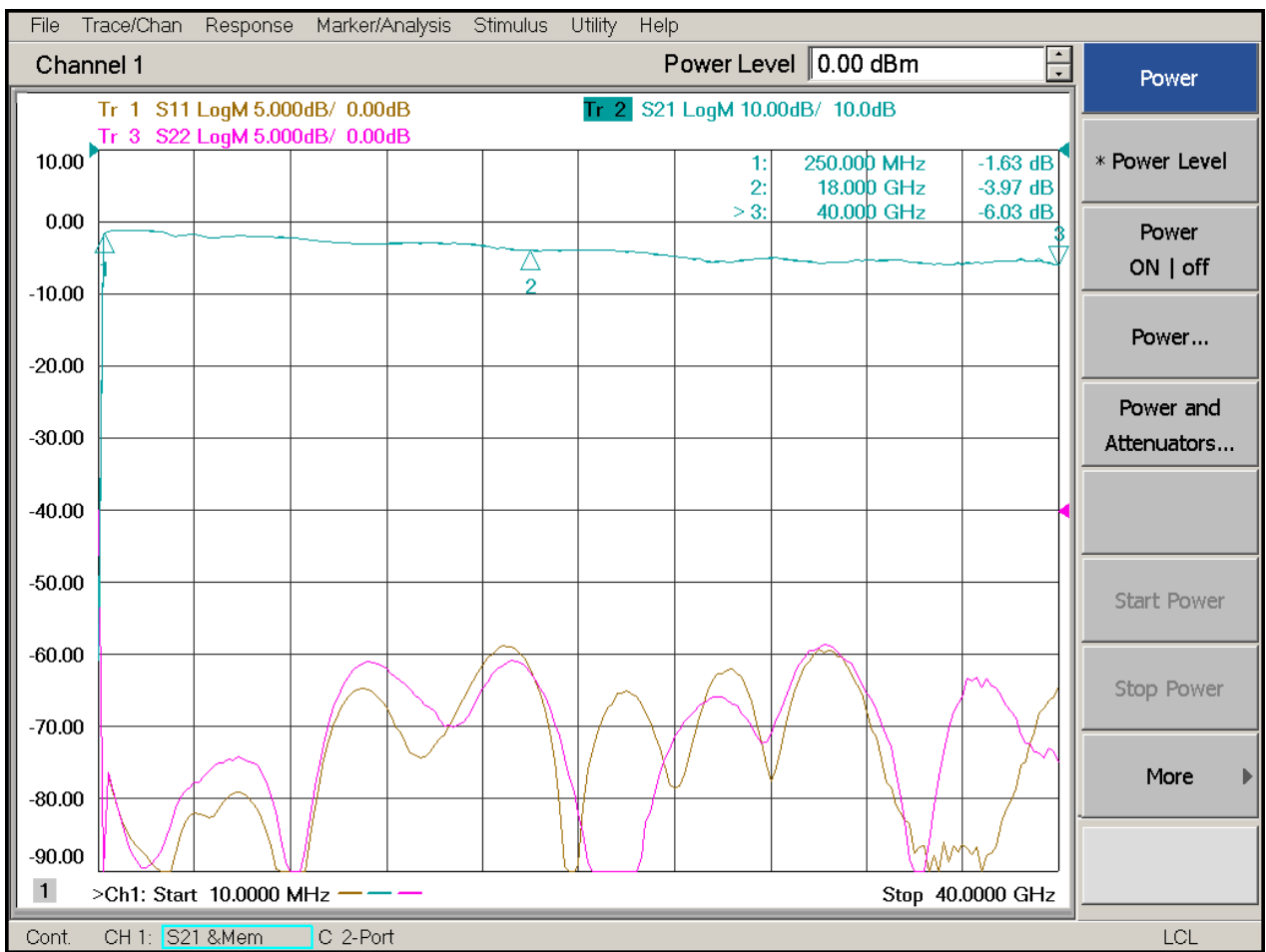
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	500 MHz to 40 GHz	500 MHz to 40 GHz See Plots	
2	Isolation:	75 dB Min.	80 dB See Plot	
3	Insertion Loss:	6.00 dB Max.	6.00 dB See Plot	
4	VSWR: (In/Out)	2.5:1 Typ.	1.92:1 See Plot	
5	Input Power:	+20dBm CW Max.	Pass	
6	RF Switching Speed: (10% to 90% RF)	100ns Max.	Pass	
7	DC Voltage:	±5V	±5V	
8	Control Signal:	TTL Compatible 0 VDC On +5 VDC Off	Pass	

QA/QC Approval: _____ Date: _____



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J0 – J2 Insertion Loss, Return Loss





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Isolation

