



**TYPICAL CHARACTERISTICS
ON
5CL9D18G-180-CD-SFF**

PMI model number 5CL9D18G-180-CD-SFF is a Combine filter with SMA female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/16/08	
	A2	ECN # 14-0111	7/21/18	

DESCRIPTION:
PMI model number 5CL9D18G-180-CD-SFF is a Combine filter with SMA female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.

SPECIFICATIONS:

- CENTER FREQUENCY: 9180 MHz Nom.
- 3dB BANDWIDTH: 180 MHz Min.
- VSWR IN THE PASS BAND: 1.5:1 MAX.
- INSERTION LOSS (PASSBAND): 4 dB MAX.
- LOSS RIPPLE (PEAK TO PEAK): 0.5 dB MAX.
- PHASE LINEARITY ±6° MAX.
- REJECTION -70 dB: DC - 7000 MHz
- REJECTION -60 dB: 7800 MHz
- REJECTION -60 dB: 10560 - 11940 MHz
- REJECTION -50 dB: 12000 - 15000 MHz
- CONNECTORS: SMA FEMALE CONNECTORS
- SIZE 1.90" (L) x 0.40" (W) x 0.40" (H)
- WEIGHT 1 OZ. TYP.
- FINISH GRAY EPOXY POLIMIDE COATING
IAW MIL-C-22750, TYPE I OVER EPOXY
POLIMIDE PRIMER IAW MIL-P-23377,
TYPE I, CLASS 1 OR 3.

VIEW FROM TOP

VIEW FROM BOTTOM

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
 7311-F GROVE ROAD
 FREDERICK, MARYLAND 21704 USA
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 WEBSITE: www.pmi-rf.com
 E-MAIL: sales@pmi-rf.com
 ISO 9001 CERTIFIED

APPROVALS	DATE	TITLE		
SEWEN <i>J. PALACIO</i>	11/16/08	PRODUCT FEATURE 5CL9D18G-180-CD-SFF		
CHECKED		SIZE FROM NO. A 05XQ0	DWG NO. 27009843	REV. A2
DRAWN		SCALE N: S	SHEET 1 OF 1	

ALL DIMENSIONS ARE IN INCHES
TOLERANCES
XXX ±0.020
XXXX ±0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

August 25, 2014

Designed, Tested & Reported By:
Sebastian Palacio



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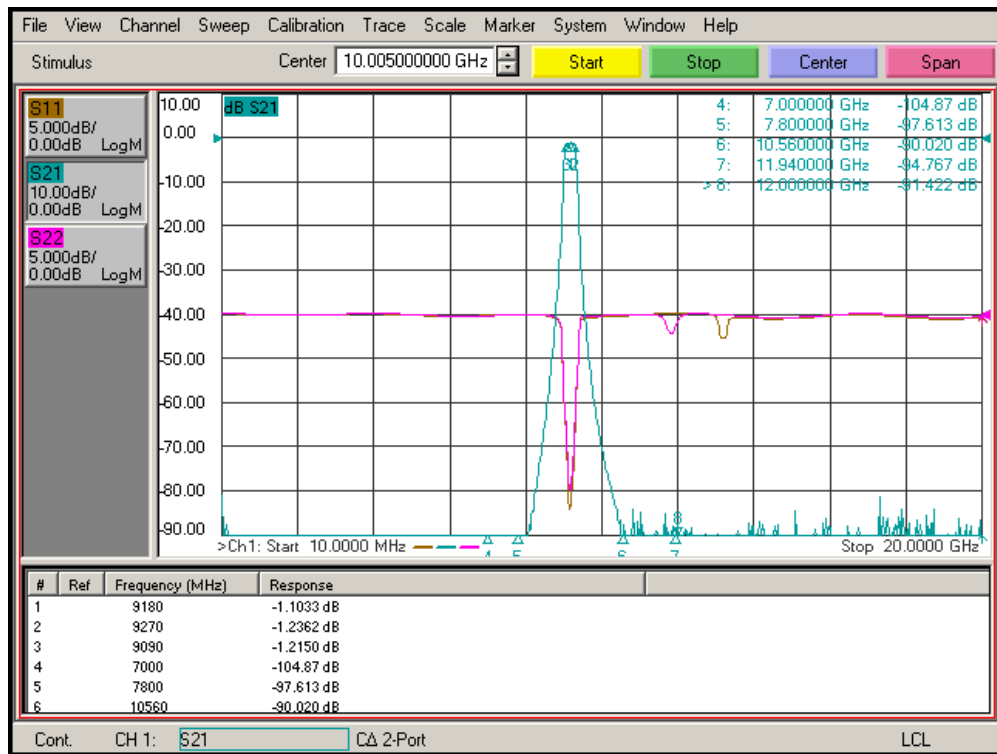
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Center Frequency	9180 MHz Nom.	9180 MHz Nom. See Plot	
2	3 dB Pass band Bandwidth:	180 MHz Min.	180MHz See Plot	
3	Pass band VSWR:	1.5:1 Max	1.31:1 See Plot	
4	Passband Insertion Loss:	4 dB Max	1.22dB See Plot	
5	Loss Ripple (peak-to-peak):	0.5 dB Max	0.1dB See Plot	
6	Phase Linearity:	$\pm 6^\circ$ Max	$\pm 2.5^\circ$ See Plot	
7	Rejection 70 dB:	DC – 7000 MHz	104.87dB See Plot	
8	Rejection 60 dB:	7800 MHz 10560 – 11940 MHz	97.61dB 90.02dB See Plot	
9	Rejection 50 dB:	12000 – 15000 MHz	91.42dB See Plot	
10	Input Power:	+30dBm Max	+30dBm See Plot	
11	Impedance: (Source Load)	50 ohms Nom.	Pass	

Broad-Band Plot

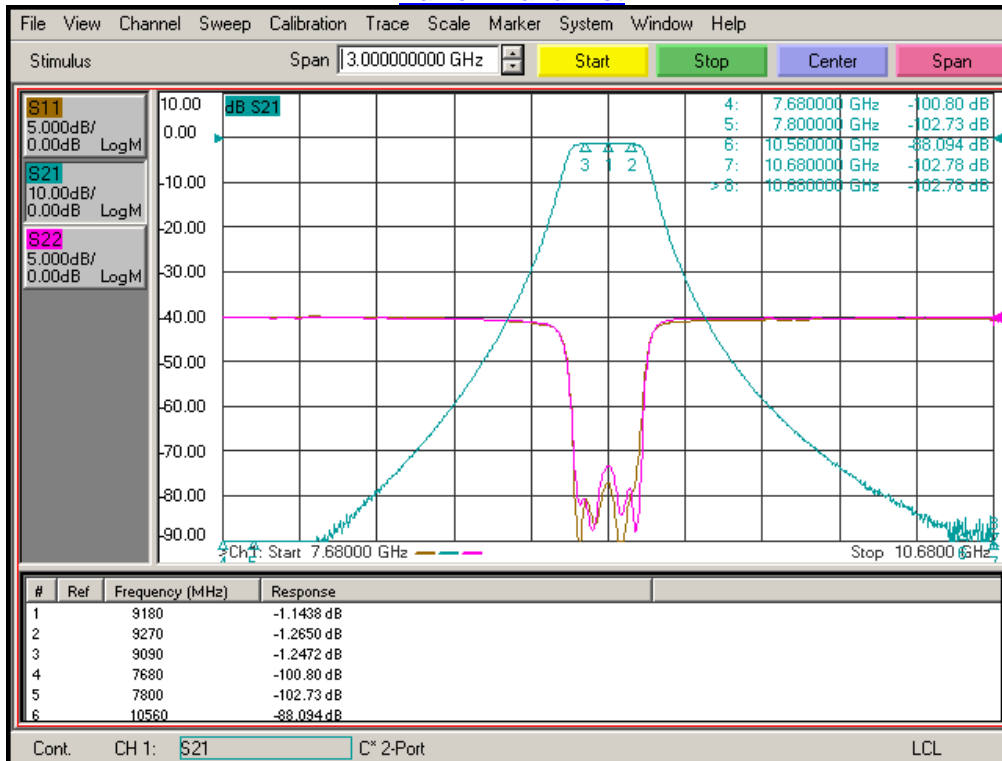
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Narrow-Band Plot





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Phase Linearity

