TYPICAL CHARACTERISTICS ON 5CL12D9G-180-CD-SFF

PMI model number 5CL12D9G-180-CD-SFF is a Combline filter with SMA female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.

DESCRIPTION:

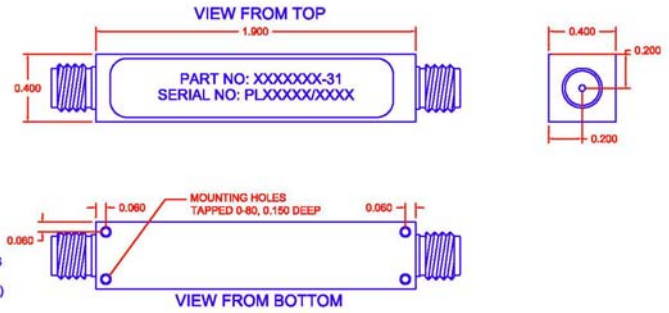
PMI model number 5CL12D9G-180-CD-SFF is a Combline filter with SMA female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/18/08	
	A2	ECN # 14-0116	7/22/14	

SPECIFICATIONS:

- CENTER FREQUENCY: 12900 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 ±5° MAX.
- REJECTION -65 dB: DC - 8000 MHz
- REJECTION -60 dB: 8760 - 11520 MHz
- REJECTION -55 dB: 14200 - 17000 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.



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING) -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- SALT FOG: MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN S. PALACIO	11/18/08
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
5CL12D9G-180-CD-SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27009741	A2

SCALE N: S SHEET 1 OF 1

August 25, 2014

Designed, Tested & Reported By:
Sebastian Palacio

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
5CL12D9G-180-CD-SFF

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Center Frequency	12900 MHz Nom.	12900 MHz Nom. See Plot	
2	3 dB Pass band Bandwidth:	180 MHz Min.	180MHz See Plot	
3	Pass band VSWR:	1.5:1 Max	1.29:1 See Plot	
4	Passband Insertion Loss:	4 dB Max	1.20dB See Plot	
5	Loss Ripple (peak-to-peak):	0.5 dB Max	0.1dB See Plot	
6	Phase Linearity:	±5° Max	±3.5° See Plot	
7	Rejection 65 dB:	DC – 8000 MHz	104.01dB See Plot	
8	Rejection 60 dB:	8760 - 11520 MHz	91.91dB See Plot	
9	Rejection 55 dB:	14200 - 17000 MHz	70dB See Plot	
10	Input Power:	+30 dBm Max	+30Bm	
11	Impedance: (Source Load)	50 ohms Nom.	Pass	

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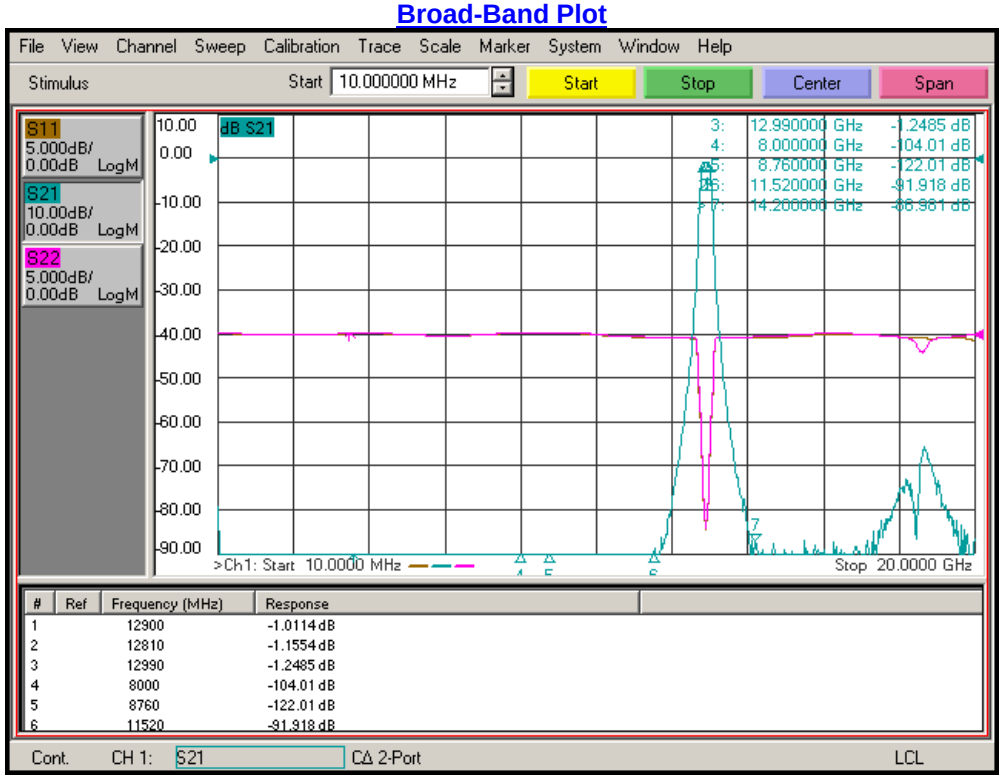
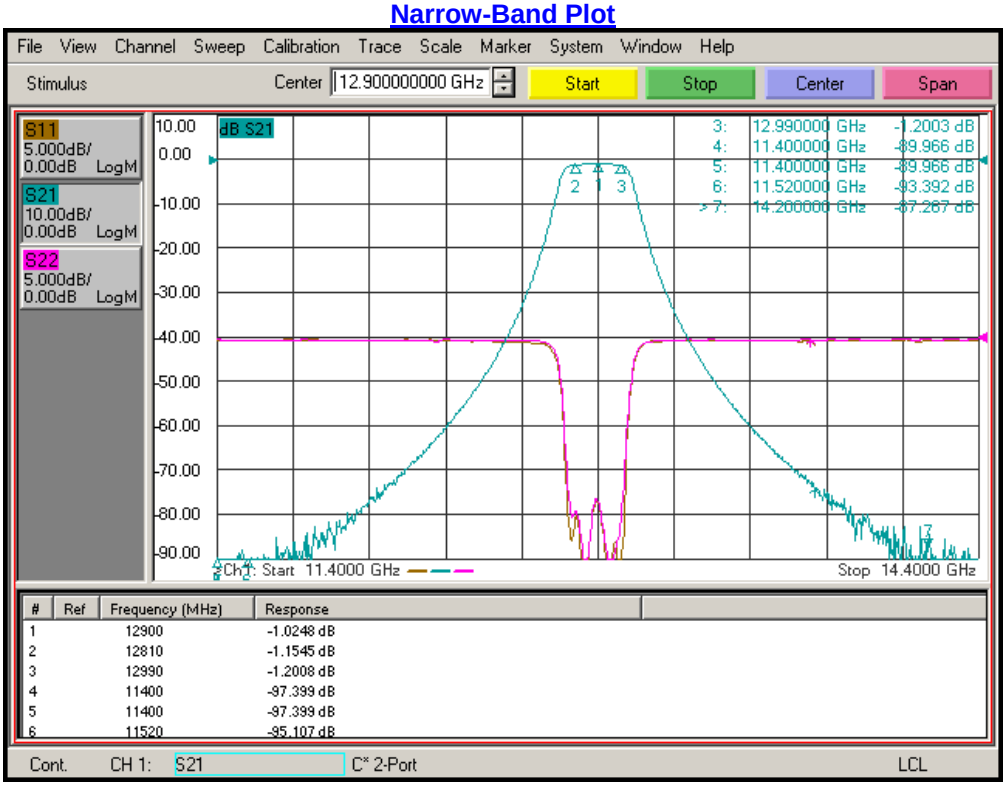
Broad-Band Plot



Narrow-Band Plot



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TYPICAL CHARACTERISTICS
ON
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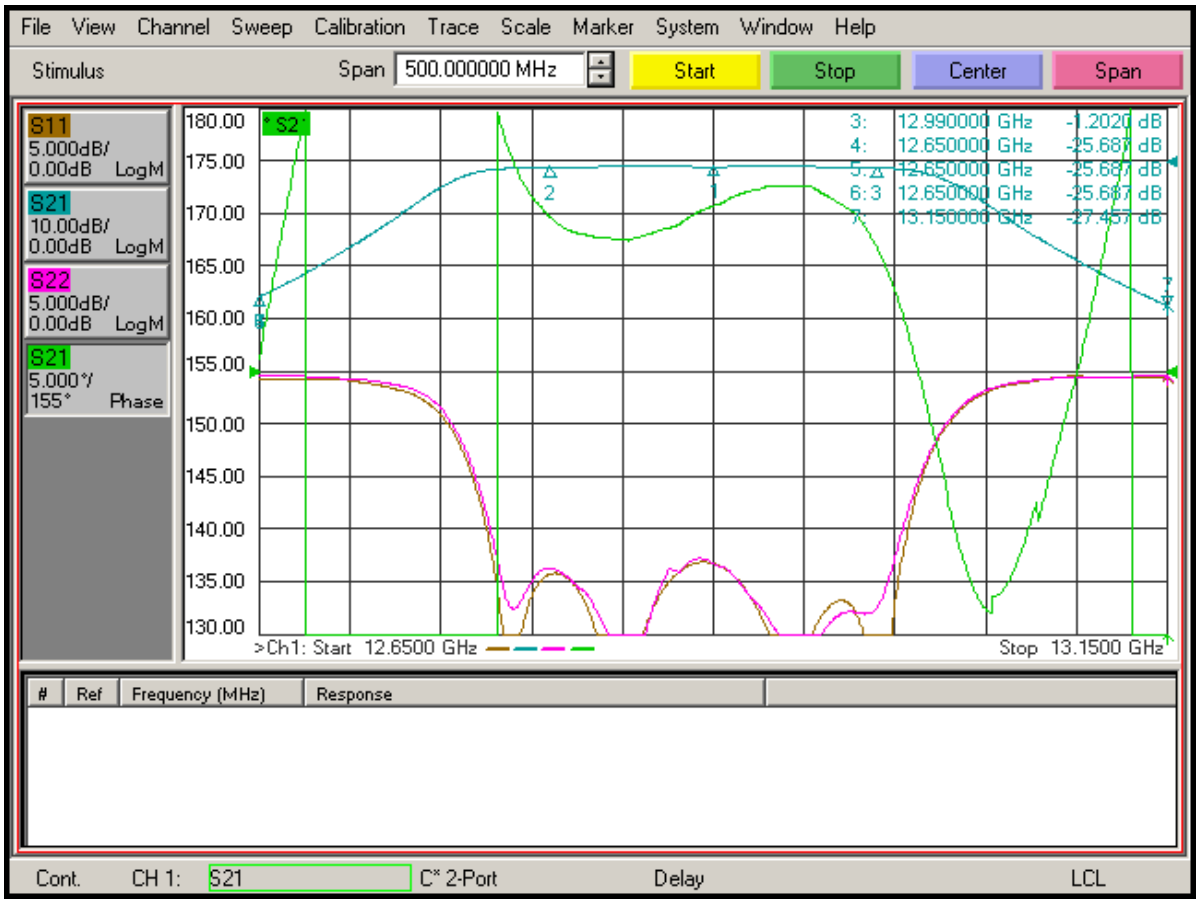
Phase Linearity



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