TYPICAL CHARACTERISTICS ON 5CL9D18G-180-CD-SFF

PMI model number 5CL9D18G-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.

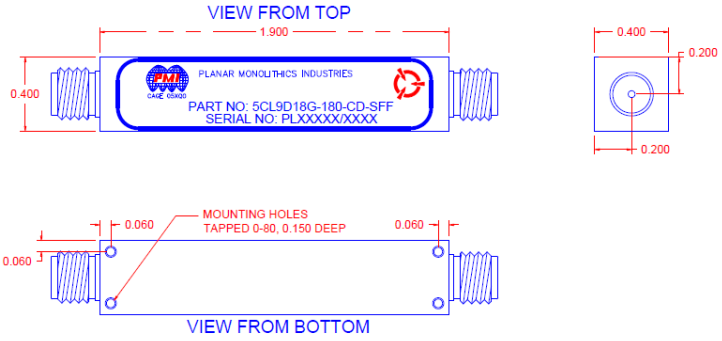
DESCRIPTION:

PMI model number 5CL9D18G-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	11/14/08	
	A3	ECN # 24-0184	7/08/24	

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.



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

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
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WEBSITE: www.pmi-rf.com
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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN: S. PALACIO	11/14/08
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
5CL9D18G-180-CD-SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27009843	A3

SCALE N: S SHEET 1 OF 1

August 25, 2014

Designed, Tested & Reported By:
Sebastian Palacio

TYPICAL CHARACTERISTICS
ON
5CL9D18G-180-CD-SFF

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:	±6°	±2.5° See Plot	
7	Rejection 70 dB:	DC – 7000 MHz	104.87dB See Plot	
8	Rejection 60 dB:	7800 MHz 10560 – 11940 MHz	97.61MHz 90.02MHz See Plot	
9	Rejection 50 dB:	12000 – 15000 MHz	91.42dB See Plot	
10	Input Power:	+30 dBm Max	+30dBm See Plot	
11	Impedance: (Source Load)	50 ohms Nom.	Pass	

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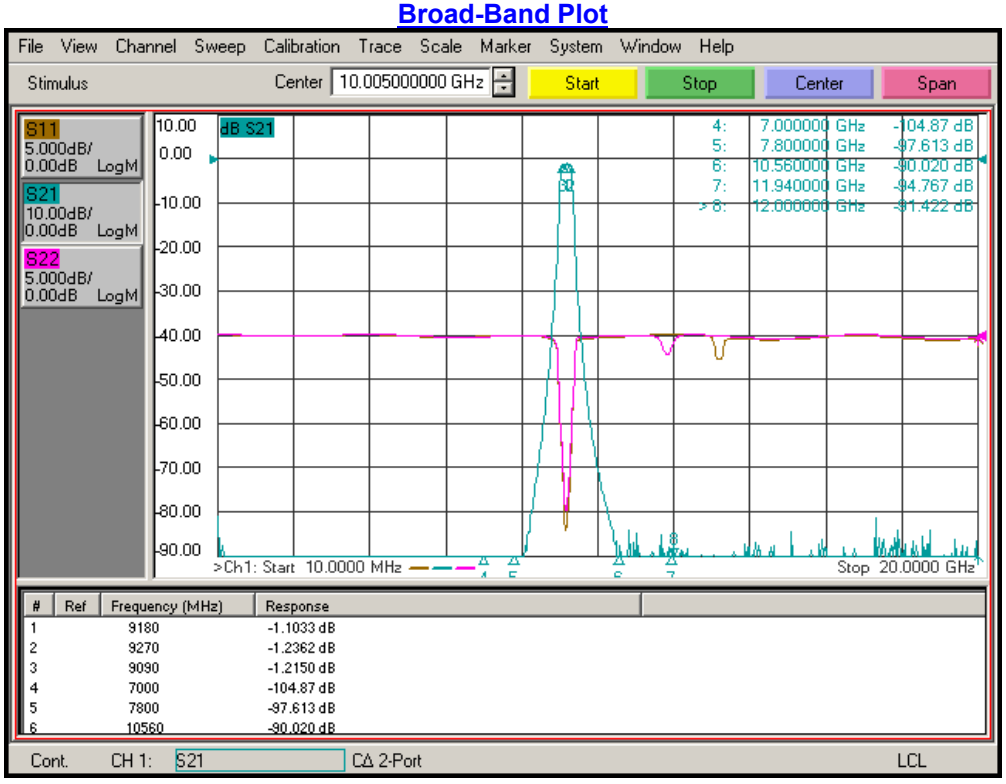
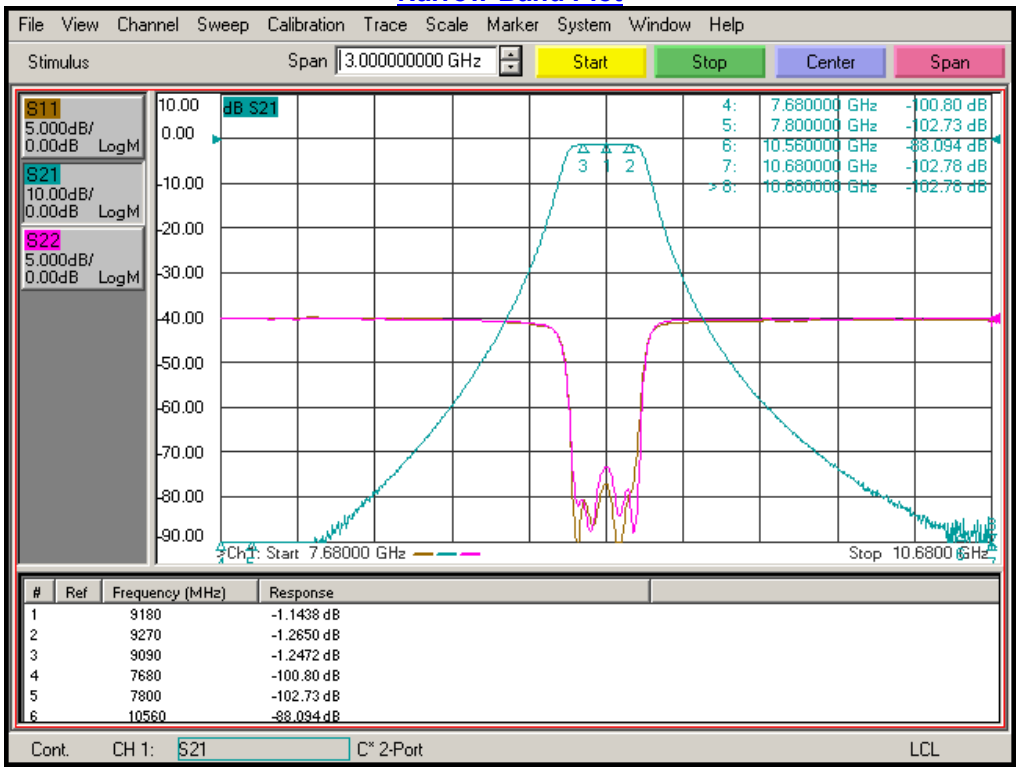
TYPICAL CHARACTERISTICS ON 5CL9D18G-180-CD-SFF

Broad-Band Plot



Narrow-Band Plot



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TYPICAL CHARACTERISTICS
ON
5CL9D18G-180-CD-SFF

Phase Linearity

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