



**TYPICAL CHARACTERISTICS
ON
6CL9227D5M-180-CD-SFF**

PMI model number 6CL9227D5M-180-CD-SFF is a Compline filter with center frequency of 9227.5MHz, 3dB bandwidth of 180MHz and SMA female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.



**DESIGNED, TESTED & REPORTED BY:
SEBASTIAN PALACIO**

March 26, 2013



TYPICAL CHARACTERISTICS ON 6CL9227D5M-180-CD-SFF

DESCRIPTION:

PMI model number 6CL9227D5M-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		DATE	APPROVED
ZONE	REV	DESCRIPTION	
	A	ORIGINAL RELEASE	5/29/09
	B	CHANGED LABEL	3/14/11

SPECIFICATIONS:

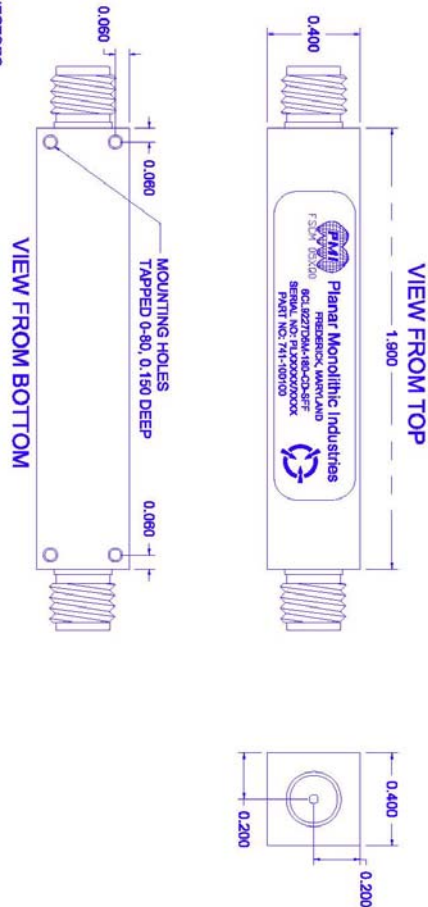
- CENTER FREQUENCY: 9227.5 MHz NOM.
- 3dB BANDWIDTH: 180 MHz TYP.
- VSWR IN THE PASS BAND: 1.5:1 MAX.
- INSERTION LOSS (F₀): 1 dB TYP.
- PHASE LINEARITY (9207.5 TO 9247.5 MHz): +/- 3.2° TYP.
- REJECTION -80 dB Nominal: 8823.5 MHz
- REJECTION -80 dB Nominal: 9671.5 MHz
- IMPEDANCE (SOURCE LOAD): 50 Ω NOM.

- CONNECTORS: SMA FEMALE CONNECTORS
- SIZE: 1.90" (L) x 0.40" (W) x 0.40" (H)
- WEIGHT: 1 OZ. TYP.
- FINISH: GRAY EPOXY PAINT

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 1038 COND. B
- SHOCK: MIL-STD-202F, METHOD 2138 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.XXX ±0.010
X.XXXX ±0.005

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ISO 9001:2008 CERTIFIED

PMI CONFIDENTIAL AND PROPRIETARY

PRODUCT FEATURE
6CL9227D5M-180-CD-SFF

APPROVALS: DATE: 5/29/09

SIZE FROM ID: A 05X00 DWG NO: 27011061 REV: B

SCALE: SHEET: 1 OF 1



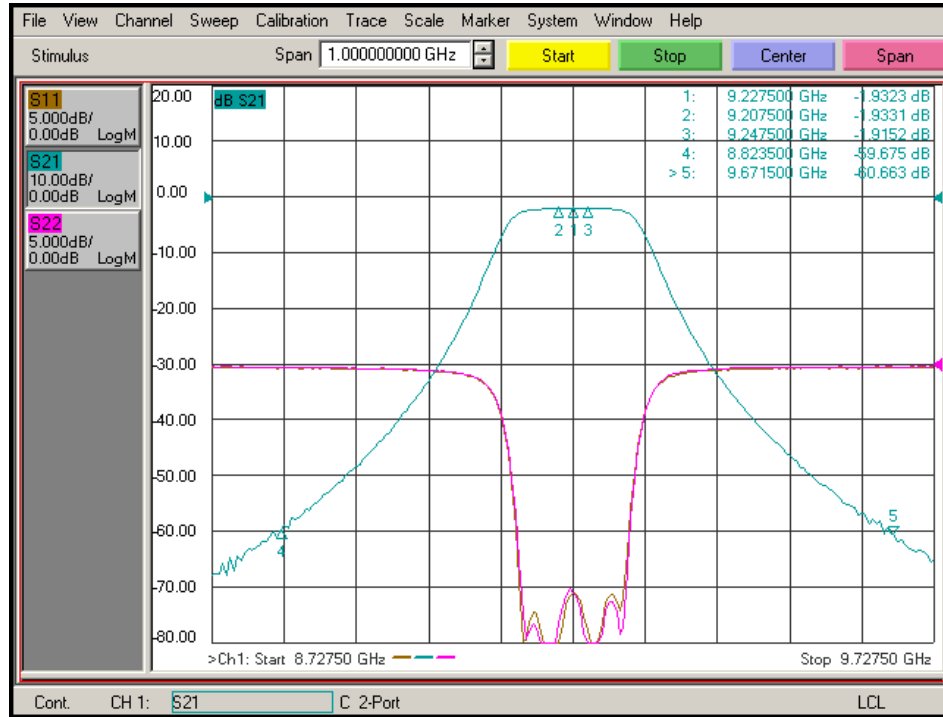
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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Center Frequency:	9227.5 MHz NOM.	9227.8MHz	
2	3dB Bandwidth:	180 MHz TYP.	182.97MHz	
3	Insertion Loss (Fo):	1 dB TYP.	1.91dB	
4	Phase Linearity:	$\pm 3.2^\circ$ TYP. (9207.5 to 9247.5 MHz)	$\pm 0.25^\circ$	
5	Rejection:	-60 dB @ 8823.5 MHz NOM.	-59.67dB	
6	Rejection:	-60 dB @ 9671.5 MHz NOM.	-60.66dB	
7	Pass band VSWR:	1.5:1 MAX.	1.22:1	
8	Impedance: (Source Load)	50 Ω NOM.	Pass	



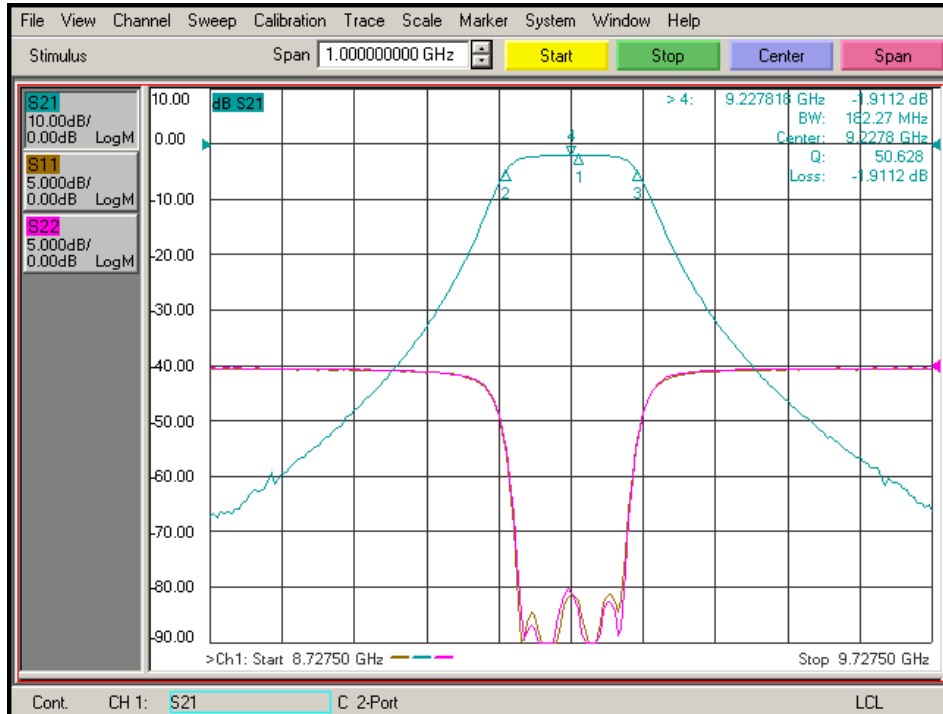
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INSERTION LOSS, RETURN LOSS, REJECTIONS & 3dB BANDWIDTH

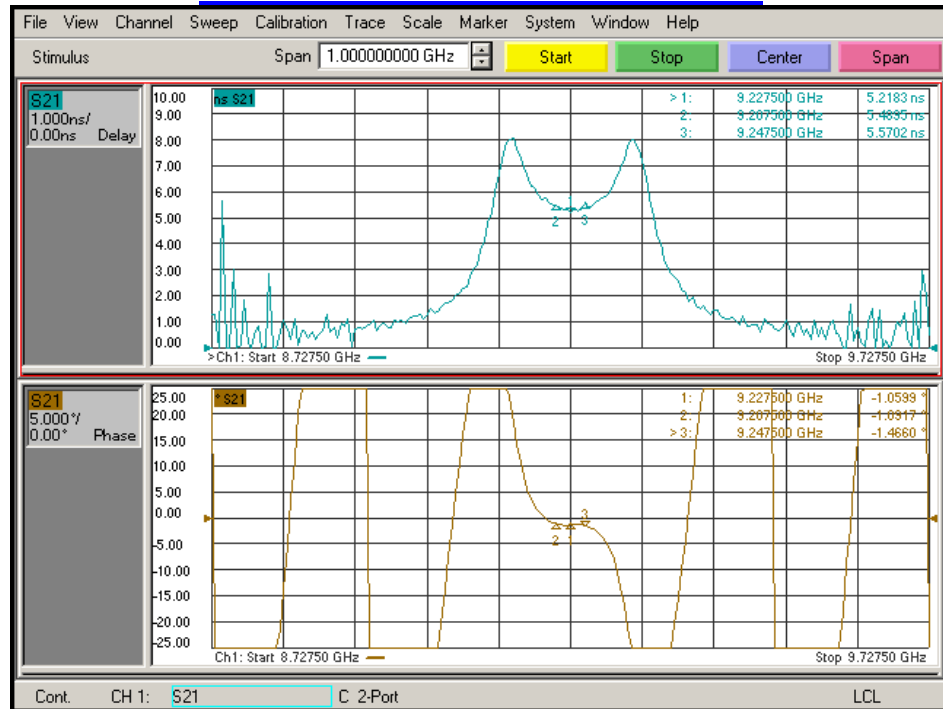




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GROUP DELAY & PHASE LINEARITY



BROADBAND PERFORMANCE

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