



**TYPICAL CHARACTERISTICS
ON PMI MODEL 11DP-11R5/16R5-CD-SFF
11.5GHz & 16.5GHz Fc. DIPLEXER**



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

March 22, 2013

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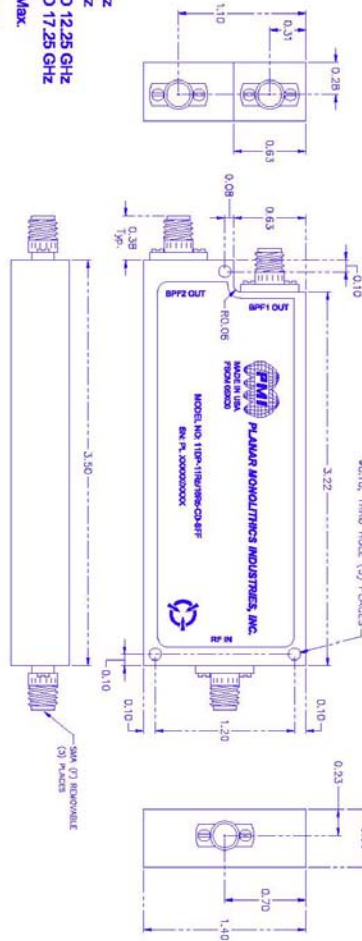


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DESCRIPTION:

PMI model number 11DP-11R5/16R5-CD-SFF is a Diplexer filter with SMA female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.

REV'SIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A		ORIGINAL RELEASE	7/24/08
B		CON# 13-0002	9/23/13



SPECIFICATIONS:

- CENTER FREQUENCY: BPF1 - 11.5 GHz
BPF2 - 16.5 GHz
- PASSBAND: BPF1 - 10.75 TO 12.25 GHz
BPF2 - 15.75 TO 17.25 GHz
- INSERTION LOSS (PASSBAND): 2dB Goal, 3dB Max.
- REJECTION: BPF1 - Fo=11.5GHz
-50dBc Min. @ 10.25 GHz
-75dBc Min. @ 13.75 GHz
BPF2 - Fo=16.5GHz
-50dBc Min. @ 17.75 GHz
-75dBc Min. @ 14.25 GHz
- VSWR: 1.5:1 Max.
- RETURN LOSS INPUT/OUTPUT: < -14.0 dB
- CONNECTORS INPUT/OUTPUT: SMA(F) - FIELD REMOVABLE
- FINISH: NO PAINT - SILVER PLATING

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -27°C TO +95°C (OPERATING BASE PLATE)
-65°C TO +125°C (STORAGE)
+25°C (SPEC)
- HUMIDITY: MIL-STD-202F, METHOD 1038 COND. B
- SHOCK: MIL-STD-202F, METHOD 2138 COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107
- SALT FOG: MIL-STD-202F, METHOD 107D-EST COND. B
- THERMAL SHOCK: MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES
XXX .0010
XXX .0005

PART NO.	APPROVALS	DATE	TITLE	SCALE	FROM INCH	DATE	REV
		7/24/08	PRODUCT FEATURE	A	05X00	27008603	B
PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND				MODEL: 11DP-11R5/16R5-CD-SFF			

PMI CONFIDENTIAL & PROPRIETARY



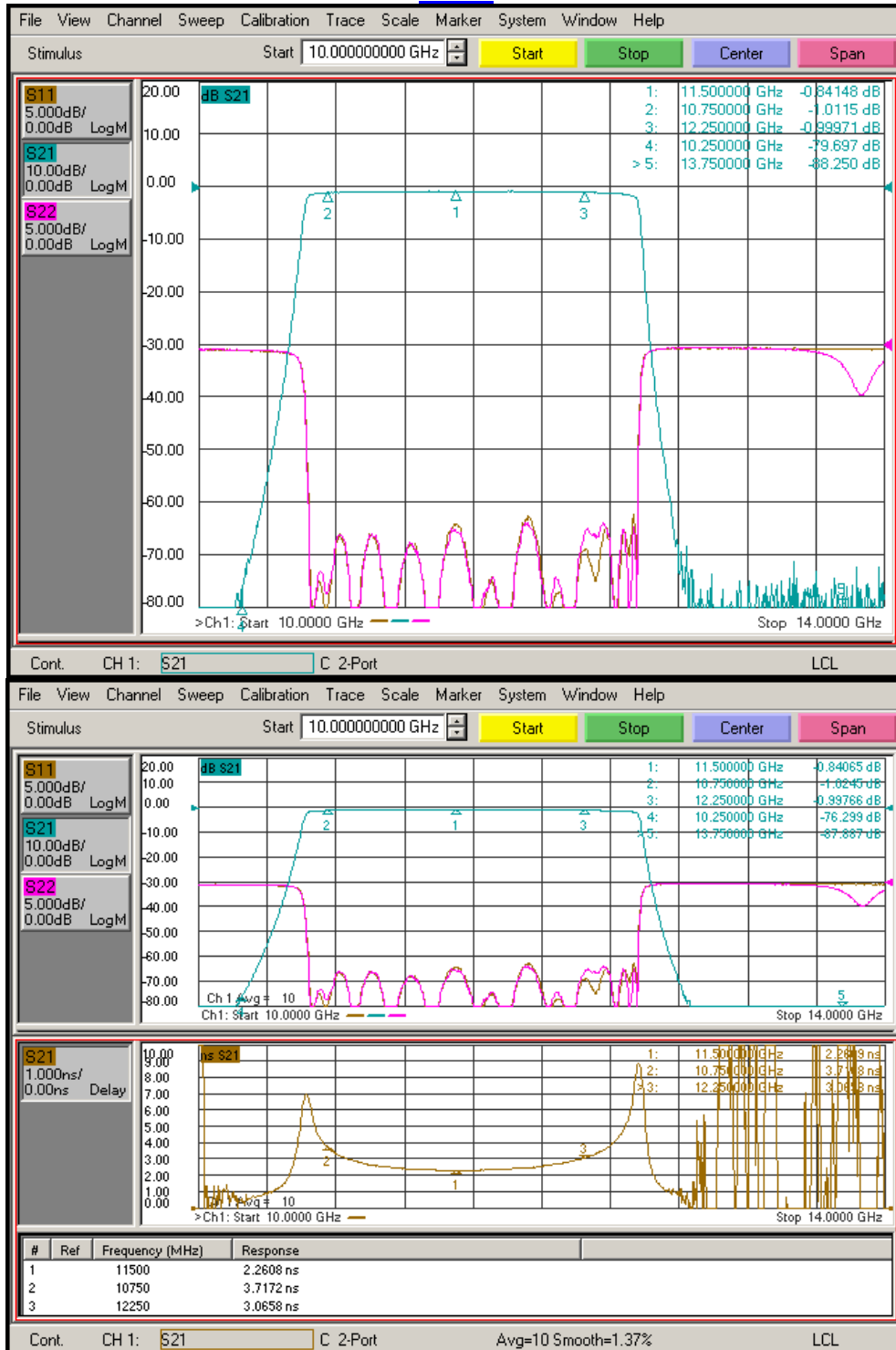
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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Center Frequency:	BPF1: 11.5 GHz BPF2: 16.5 GHz	Pass (See Plots)	
2	Passband:	BPF1: 10.75 TO 12.25 GHz BPF2: 15.75 TO 17.25 GHz	Pass (See Plots)	
3	Insertion Loss (Passband):	2 dB Goal, 3 dB Max	1.35dB Max. (See Plots)	
4	Rejection:	BPF1-Fo=11.5GHz -50dBc@ 10.25 GHz & -75dBc @ 13.75 GHz	-79.69dB Min. (See Plots)	
5	Rejection:	BPF2-Fo=16.5GHz -50dBc@ 17.75 GHz & -75dBc @ 14.25 GHz	-61.26dB Min. (See Plots)	
6	VSWR:	1.5:1 Max	1.35:1 (See Plots)	
7	Return Loss Input/Output:	<-14.0 dB	-16.64dB (See Plots)	



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**FILTER PERFORMANCE
BPF1**



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**FILTER PERFORMANCE
BPF2**

