



**TYPICAL CHARACTERISTICS
ON
8CL14D6G-2D4G-CD-SFF**

PMI Model Number 8CL14D6G-2D4G-CD-SFF is a Combine filter with center frequency at 14.6GHz, bandwidth of 2.4GHz and SMA Female connectors in and out. All filters will be machined and silver plated to provide the highest possible Q.



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

March 26, 2013

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD FREDERICK, MD 21704
TEL: 301-682-5019 FAX: 301-662-1731
Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON 8CL14D6G-2D4G-CD-SFF

DESCRIPTION:
PMI Model Number: 8CL14D6G-2D4G-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: 14.8 GHz
- 3dB BANDWIDTH: 2400 MHz
- VSWR IN THE PASS BAND: 1.5:1 MAX.
- INSERTION LOSS (PASSBAND) $\leq 1.5 \text{ dB MAX.}$
- REJECTION @ 124 GHz: $\leq -50 \text{ dB}$

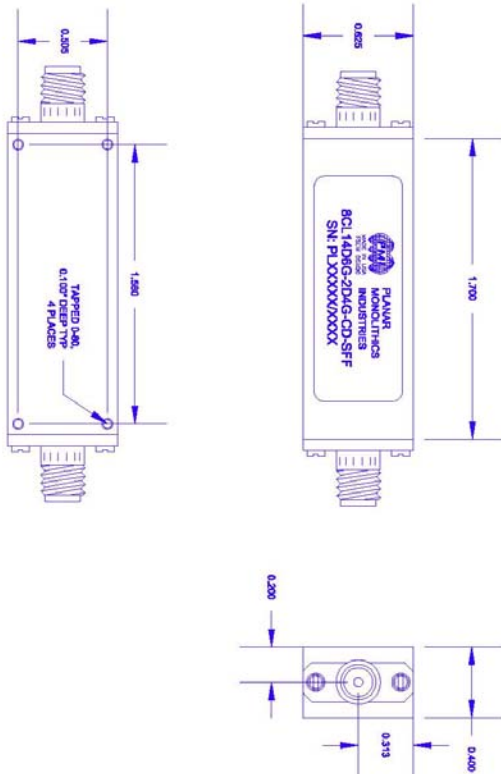
- CONNECTORS: SMA FEMALE CONNECTORS
- SIZE: 1.70" (L) x 0.625" (W) x 0.40" (H)
- WEIGHT: 1 OZ. TYP.
- FINISH: PAINTED GRAY

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

REV	DESCRIPTION	DATE	APPROVAL
A	ORIGINAL RELEASE	2/11/18	



ALL DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XXX IN. DIMS

FORM 100	APPROVALS	DATE	TITLE	SIZE FROM DIA.	DWG NO.	DATE	REV.
	S. PALACIO	2/11/18	8CL14D6G-2D4G-CD-SFF OUTLINE DRAWING	A	05X00	27018471	A
<p>PLANAR MONOLITHICS INDUSTRIES 7311-F GROVE ROAD FREDERICK, MD 21704 TEL: (301) 682-5019 FAX: (301) 682-1731</p>				SCALE	N/A	SHEET	1 OF 1



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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Center Frequency:	14.6 GHz	14.6 GHz Nom. See Plot	
2	3dB Bandwidth:	2400 MHz	2400 MHz Nom. See Plot	
3	Pass band VSWR	1.5:1 Max	1.34:1 See Plot	
4	Passband Insertion Loss:	≤ 1.5 dB Max	1.14 dB at Fc. See Plot	
5	Rejection @ 12.4 GHz	≤ -50 dB	-59.44dB See Plot	

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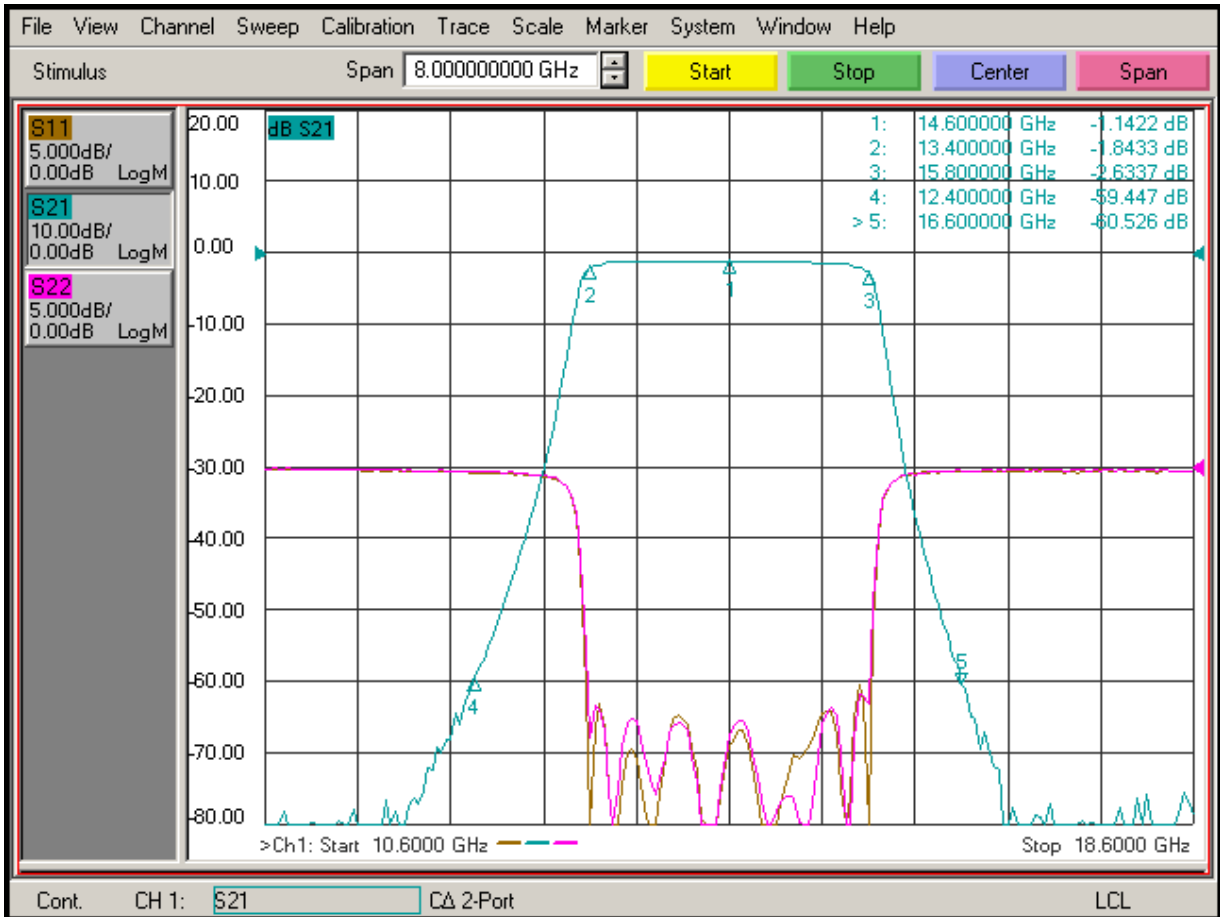
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**TYPICAL CHARACTERISTICS
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Insertion Loss, Return Loss, and Rejection



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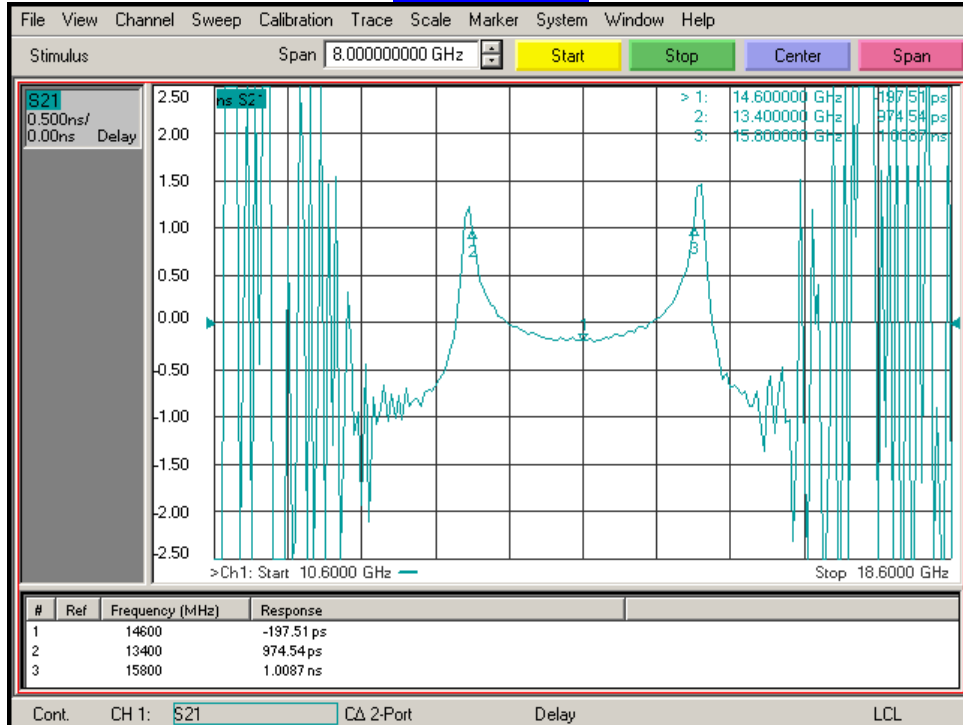


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BROADBAND PERFORMANCE



GROUP DELAY



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