



TYPICAL CHARACTERISTICS ON 7CL1500-60-CD-SFF

PMI model number 7CL1500-60-CD-SFF is a Comblin Bandpass 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	11/16/08	
	A2	ECN # 14-0110	7/21/14	

DESCRIPTION:

PMI model number 7CL1500-60-CD-SFF is a Comblin Bandpass 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: 1500 MHz Nom.
- 3dB BANDWIDTH: 60 MHz Min.
- VSWR IN THE PASS BAND: 1.5:1 MAX.
- INSERTION LOSS (PASSBAND): 7 dB MAX.
- LOSS RIPPLE (PEAK TO PEAK) 0.5 dB MAX.
- REJECTION -80 dB: DC - 1380 MHz
- REJECTION -60 dB: 1620 - 3000 MHz
- CONNECTORS: SMA FEMALE CONNECTORS
- SIZE 2.70" (L) x 1.20" (W) x 0.500" (H)
- WEIGHT 1 OZ. TYP.
- FINISH GRAY EPOXY POLIMIDE COATING
IAW MIL-C-22750, TYPE 1 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 1038 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

PART NO: XXXXXXX-25
SERIAL NO: PLXXXX/XXXX

PMI CONFIDENTIAL AND PROPRIETARY

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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APPROVALS	DATE	TITLE		
DRAWN <i>J. PALACIO</i>	11/16/08	PRODUCT FEATURE 7CL1500-60-CD-SFF		
CHECKED		SIZE FROM NO. A 05XQ0	DWG NO. 27009644	REV. A2
RELEASED		SCALE N:S	SHEET 1 OF 1	

September 1, 2014

**Designed, Tested & Reported By:
Sebastian Palacio**



**TYPICAL CHARACTERISTICS
ON
7CL1500-60-CD-SFF**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Center Frequency:	1500 MHz Nom.	1500 MHz (See Plot)	
2	3 dB Pass band Bandwidth:	60 MHz Min.	60MHz (See Plot)	
3	Pass band VSWR:	1.5:1 Max	1.17:1 (See Plot)	
4	Passband Insertion Loss:	7 dB Max	2.12dB (See Plot)	
5	Loss Ripple (peak to peak):	0.5 dB Max	0.1dB (See Plot)	
6	Rejection:	60 dB DC – 1380 MHz Min.	64.47dB (See Plot)	
7	Rejection:	60 dB 1620 MHz–3000 MHz	74.79dB (See Plot)	
8	Input Power:	+30 dBm Max	+30 dBm	
9	Impedance (Source Load):	50 ohms Nom.	Pass	

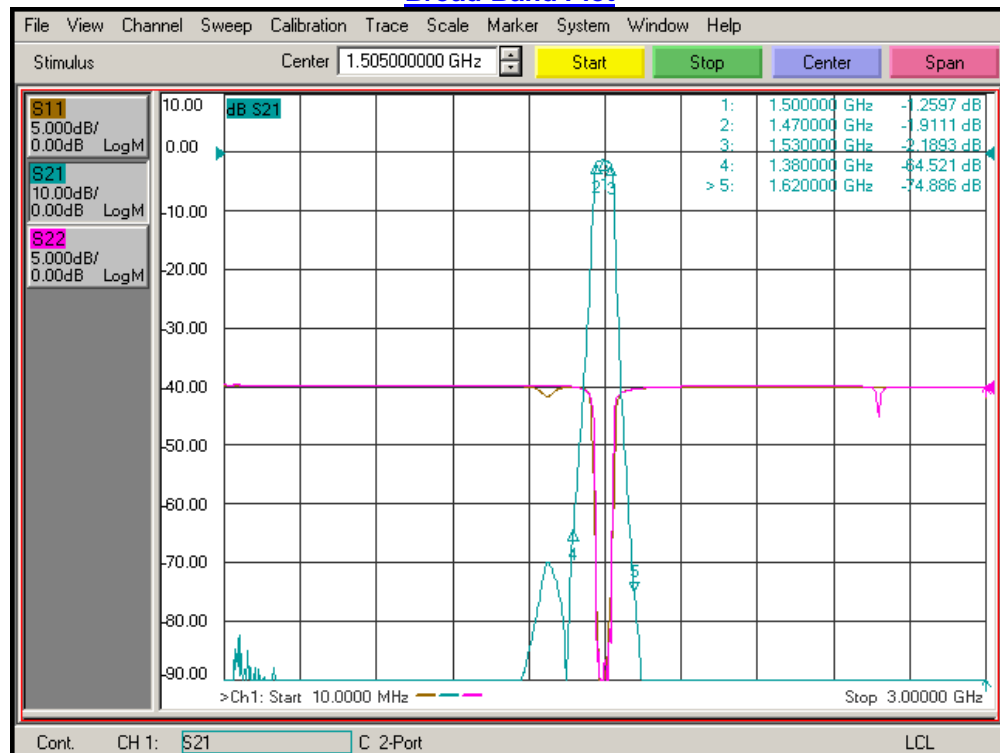


TYPICAL CHARACTERISTICS ON 7CL1500-60-CD-SFF

Narrow-Band Plot



Broad-Band Plot





TYPICAL CHARACTERISTICS ON 7CL1500-60-CD-SFF

Group Delay & Phase Linearity

