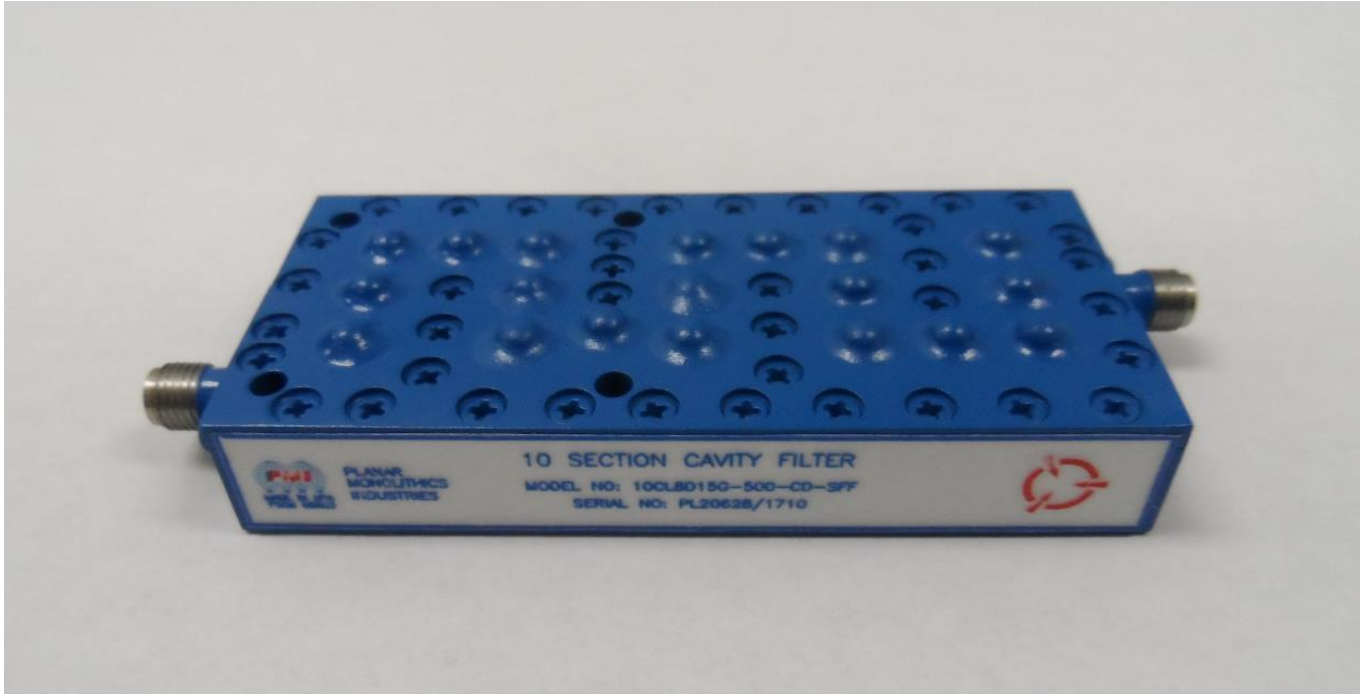




## Typical Characteristics For 10CL8D15G-500-CD-SFF

PMI MODEL: 10CL8D15G-500-CD-SFF IS A 10 SECTION CAVITY FILTER WITH SILVER PLATED ALUMINIUM TO INCREASE Q AND IMPROVED PERFORMANCE.



March 07, 2017

Designed by: PMI Engineering

Tested & Reported by: Alfredo Lopez Castro

4921 Robert J. Mathews Pkwy Suite 1 El Dorado Hills, CA 95762, USA  
Phone: (916)542-1401 Fax: (916)265-2597 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



# Typical Characteristics For 10CL8D15G-500-CD-SFF

## TABLE OF CONTENTS

1. Product Feature & Mechanical Drawing: .....	Page 3
2. Summary Test Data: .....	Page 4
3. J1 – J2 Insertion Loss and Return Loss / Isolation: .....	Page 5
4. Switching Speed “On” and “Off” States: .....	Page 6



# Typical Characteristics For 10CL8D15G-500-CD-SFF

## Product Feature & Mechanical Drawing:

### DESCRIPTION

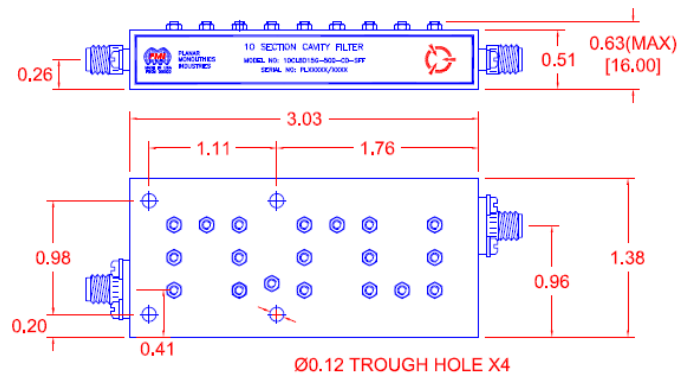
PMI MODEL: 10CL8D15G-500-CD-SFF IS A 10 SECTION CAVITY FILTER WITH SILVER PLATED ALUMINUM TO INCREASE Q AND IMPROVED PERFORMANCE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	01/03/17	

### MECHANICAL OUTLINE

### SPECIFICATIONS

- \* Center Frequency: \_\_\_\_\_ 8.15GHz
- \* Bandwidth: \_\_\_\_\_ ±250MHz (7.9~8.4GHz)
- \* Insertion Loss: \_\_\_\_\_ ≤0.7dB @ 8.15GHz  
≤1.4dB @ 7.9~8.4GHz
- \* Return Loss: \_\_\_\_\_ ≥20dB
- \* Stop Band Rejection: \_\_\_\_\_ ≥46dB @ 7.75GHz
- \* Impedance: \_\_\_\_\_ 50 ohms
- \* Power Handling: \_\_\_\_\_ ≤10W
- \* Connectors: \_\_\_\_\_ SMA-Female
- \* Surface Finish: \_\_\_\_\_ BLUE 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: \_\_\_\_\_ -20 °C TO +60 °C (OPERATING)
- \* HUMIDITY: \_\_\_\_\_ MIL-STD-202, METHOD 103B COND. B
- \* SHOCK: \_\_\_\_\_ MIL-STD-202, METHOD 213B COND. B
- \* VIBRATION: \_\_\_\_\_ MIL-STD-202, METHOD 204D COND. B
- \* ALTITUDE: \_\_\_\_\_ MIL-STD-202, METHOD 105C COND. B
- \* TEMPERATURE CYCLE: \_\_\_\_\_ MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES (DIM)  
TOLERANCES:  
X.XX ±0.005  
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

**PLANAR MONOLITHICS INDUSTRIES, INC.**  
4921 ROBERT J. MATHEWS PKWY SUITE 1  
EL DORADO HILLS, CA 95762 USA  
TEL: (916)-542-1401, FAX: (916) 265-2597  
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	<i>JPU</i>	01/03/17	PRODUCT FEATURE 10CL8D15G-500-CD-SFF		
CHECKED			SHEET	FIGM NO.	DWG NO.
ISSUED			A	05XQ0	27031661
			SCALE	N:S	SHEET 1 OF 1

4921 Robert J. Mathews Pkwy Suite 1 El Dorado Hills, CA 95762, USA  
Phone: (916)542-1401 Fax: (916)265-2597 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



# Typical Characteristics For 10CL8D15G-500-CD-SFF

## Summary Test Data

Customer: <u>YoungDo Electronics, S. Korea</u>	Tested By: <u>Alfredo Lopez Castro</u>
SO No: <u>SO17-005-F-PE</u>	Temperature: <u>+25°C</u>
Model No: <u>10CL8D15G-500-CD-SFF</u>	Date: <u>03/03/17</u>
Serial No: <u>PLXXXXX/XXXX</u>	Drawing No: <u>27631661</u> Rev: <u>A1</u>

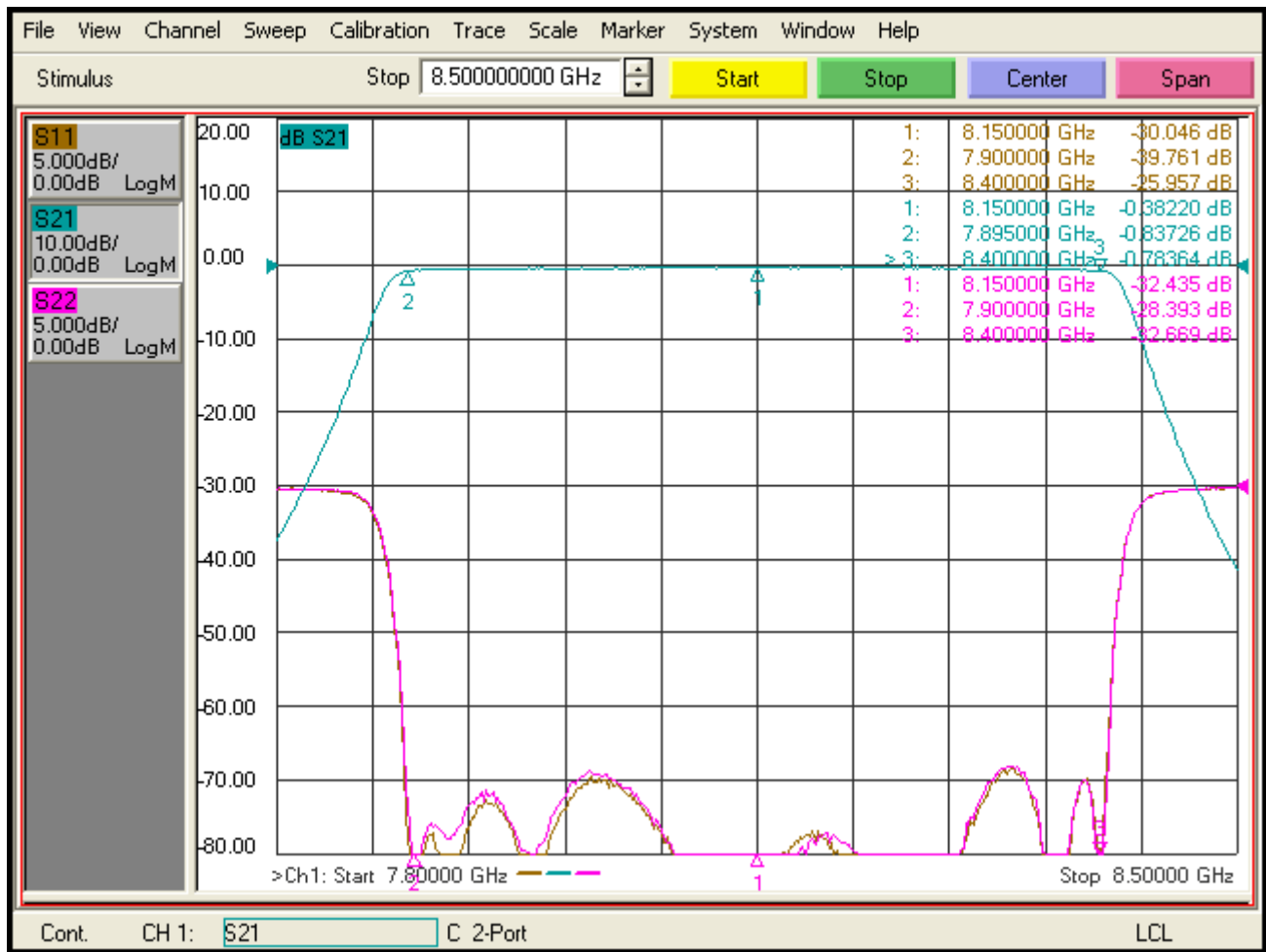
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	QA QC
1	Center Frequency	8.15GHz	
2	Bandwidth	±250MHz (7.9~8.4GHz)	
3	Insertion Loss	≤0.7dB @ 8.15GHz ≤1.4dB @ 7.9~8.4GHz	
4	Return Loss	≥20dB	
5	Stop Band Rejection	≥46dB @ 7.75GHz	
6	Impedance	50 ohms	
7	Power Handling	≤10W	

4921 Robert J. Mathews Pkwy Suite 1 El Dorado Hills, CA 95762, USA  
 Phone: (916)542-1401 Fax: (916)265-2597 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



# Typical Characteristics For 10CL8D15G-500-CD-SFF

J1 – J2 Center Frequency / Bandwidth / Insertion Loss and Return Loss



4921 Robert J. Mathews Pkwy Suite 1 El Dorado Hills, CA 95762, USA  
 Phone: (916)542-1401 Fax: (916)265-2597 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)