

**TYPICAL CHARACTERISTICS
ON
5CL8G-400-CD-SFF-GDO**

**PMI MODEL: 5CL8G-400-CD-SFF-GDO IS A COMBLINE FILTER WITH A CENTER
FREQUENCY OF 8 GHz AND IN AND OUT SMA FEMALE CONNECTORS**



REPORTED BY Kevin C
AUTHOR Matt L
DATE 11/6/2024

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Email: sales@quanticpmi.com

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ON
5CL8G-400-CD-SFF-GDO
PRODUCT FEATURE**

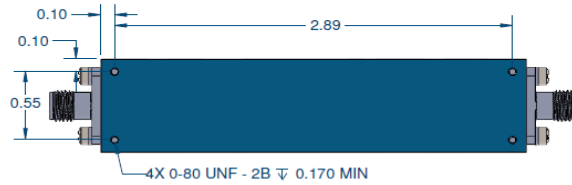
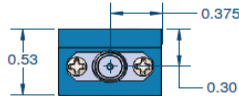
DESCRIPTION:

PMI MODEL: 5CL8G-400-CD-SFF-GDO IS A COMBLINE FILTER WITH A CENTER FREQUENCY OF 8 GHz AND IN AND OUT SMA FEMALE CONNECTORS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/19/24	

SPECIFICATIONS:

- CENTER FREQUENCY:..... 8 GHz
- INSERTION LOSS:..... 1.75 dB MAX
- BANDWIDTH:..... 0.4 GHz
- PASSBAND RIPPLE:..... 0.25 dB MAX
- VSWR:..... 1.5:1 MAX
- REJECTION @ 7.28 AND 8.72 GHz:..... 60 dBc MIN
- GROUP DELAY VARIATION @ 8 GHz ± 150 MHz:..... 3.0 ns TYP
- IMPEDANCE:..... 50 Ω
- CONNECTORS:..... SMA FEMALE
- SIZE:..... 3.09" X 0.75" X 0.53"
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-40°C TO +100°C (STORAGE)
- 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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

 <small>7309-A GROVE ROAD FREDERICK, MD 21704 USA TEL: (301) 662-5019 FAX: (301) 662-1731 WWW: WWW.QUANTICPMI.COM</small>					
APPROVALS M LAULIS REVISION ISSUES	DATE 9/19/24	TITLE OUTLINE 5CL8G-400-CD-SFF-GDO	PART NO. 05X00	DRAWING NO. 27049540	REV A1
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES .25 .125 .0625 .03125 .0005 .001 .002 .005</small>		SCALE 2:1	SHEET 1 OF 1		

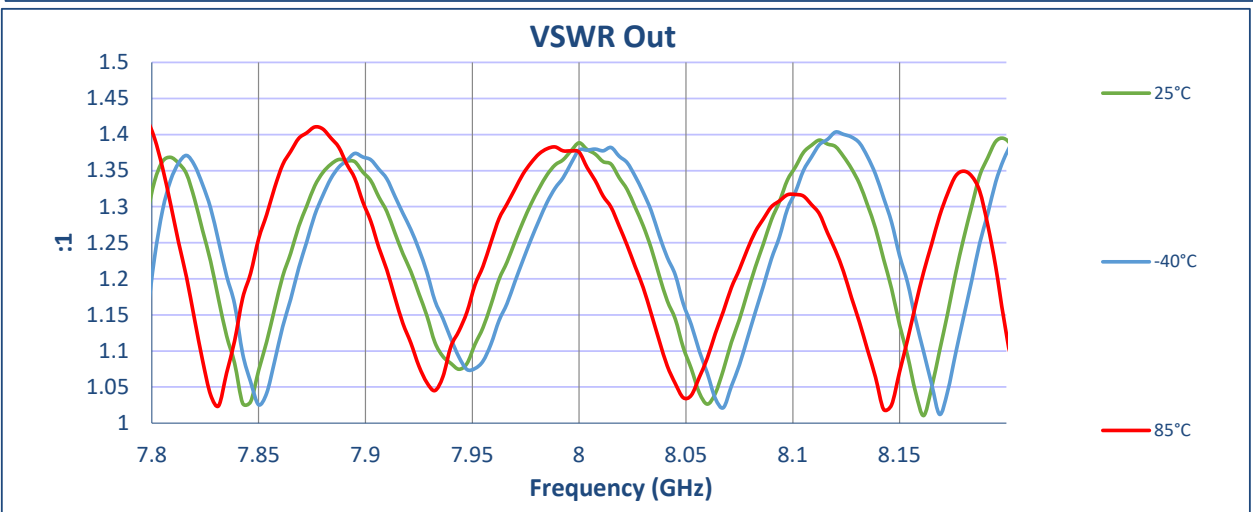
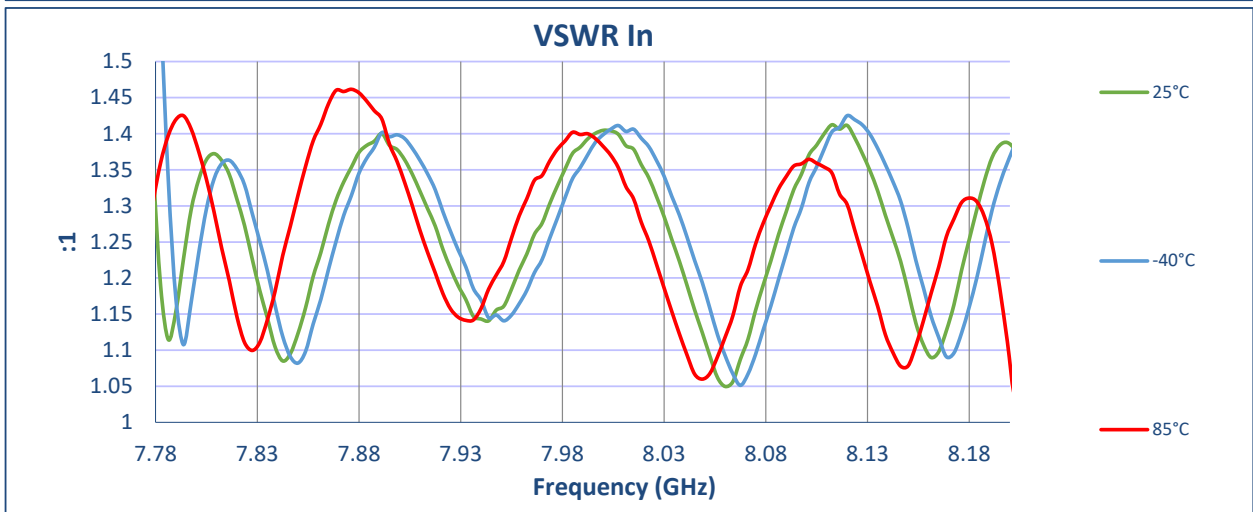
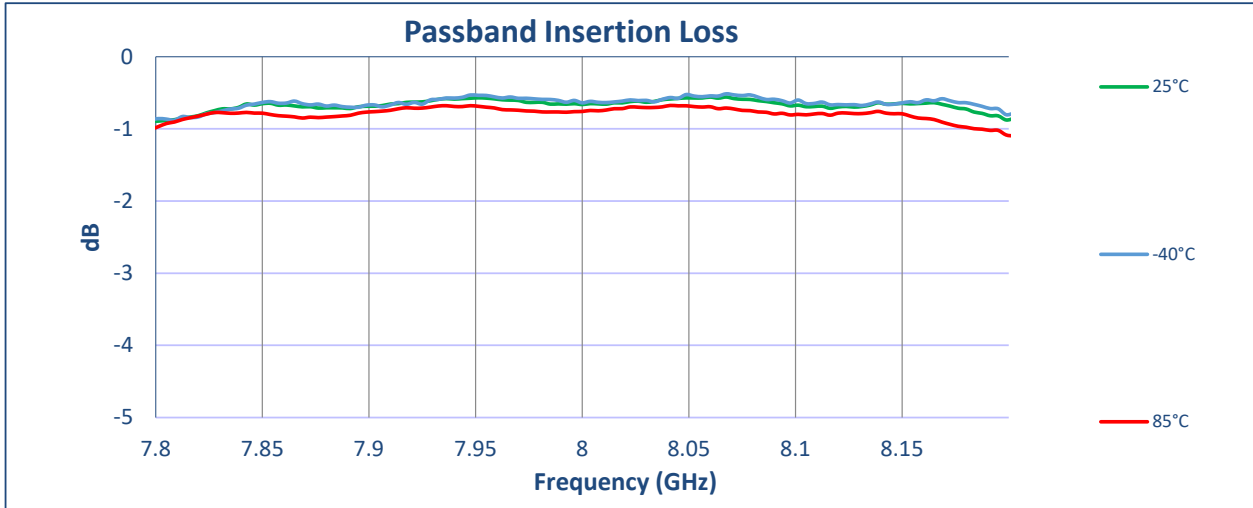
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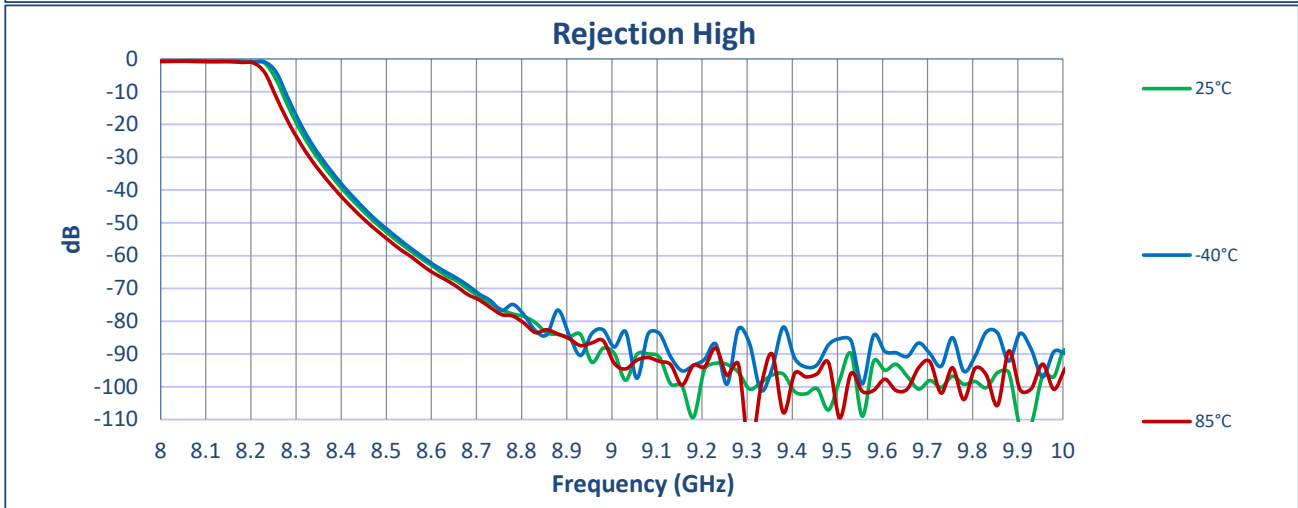
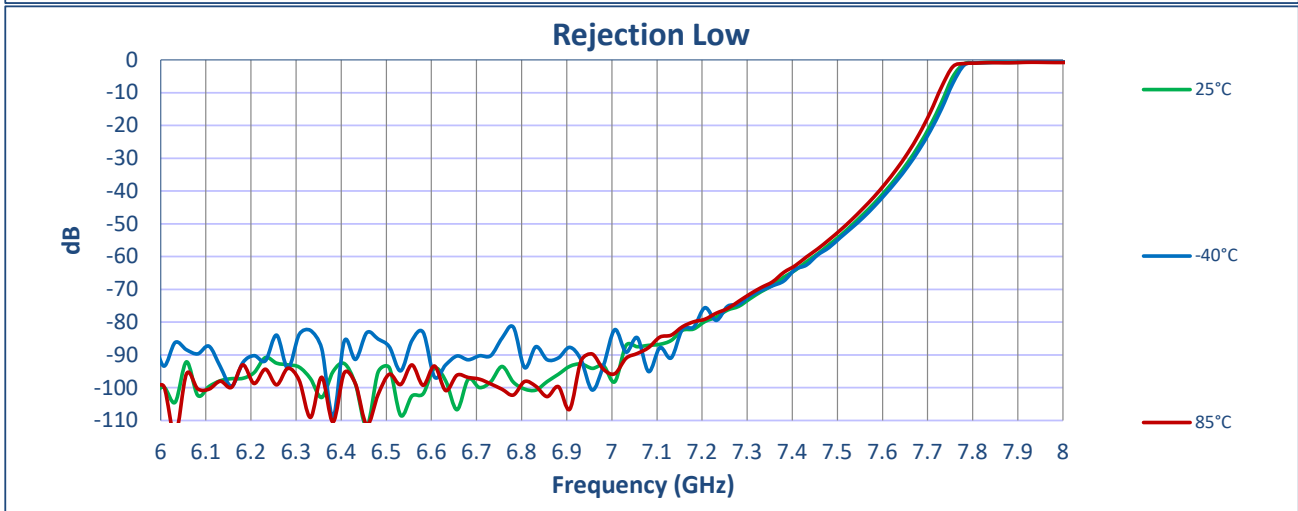
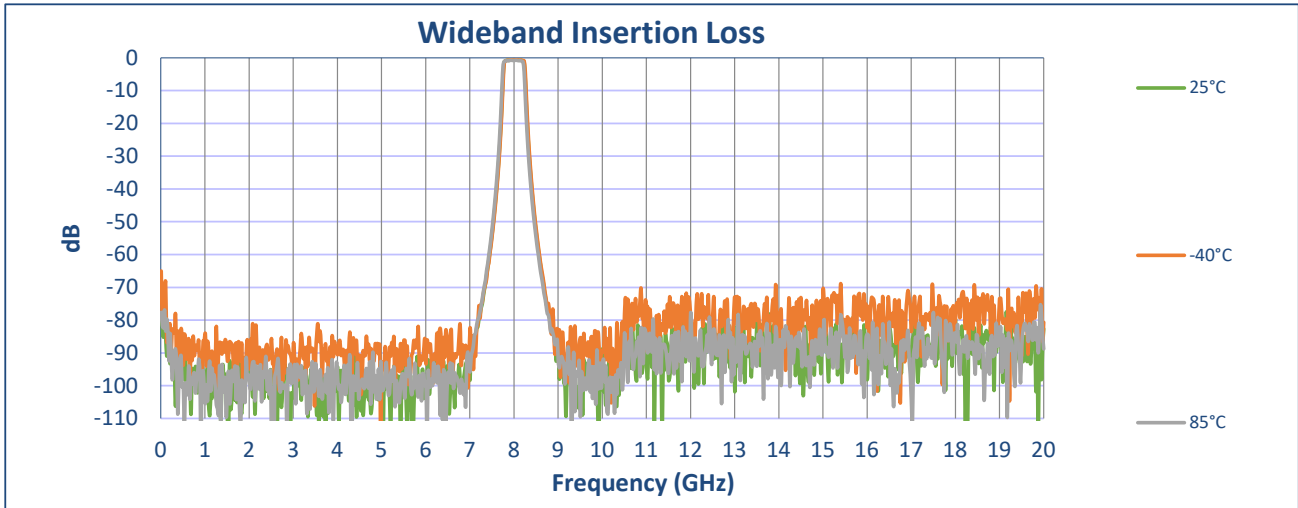
TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-40°C	85°C
1	Center Frequency	8 GHz	8 GHz		
2	Bandwidth	400 MHz.	400 MHz	400 MHz	400 MHz
3	VSWR	1.5:1 Max.	1.41:1	1.43:1	1.46:1
4	Group Delay Variation	3 ns Typ. (8 GHz ± 150 MHz)	0.95 ns	1.04 ns	0.88 ns
5	Insertion Loss (Center Frequency)	1.75 dB Max.	-0.7 dB	-0.6 dB	-0.8 dB
6	Rejection	-60 dBc Min. @ 7.28 GHz	-74.77 dBc	-74.81 dBc	-73.66 dBc
7	Rejection	-60 dBc Min. @ 8.72 GHz	-73.46 dBc	-71.59 dBc	-74.62 dBc
8	Passband Ripple	0.25 dB Max	±0.16 dB	±0.18 dB	±0.2 dB

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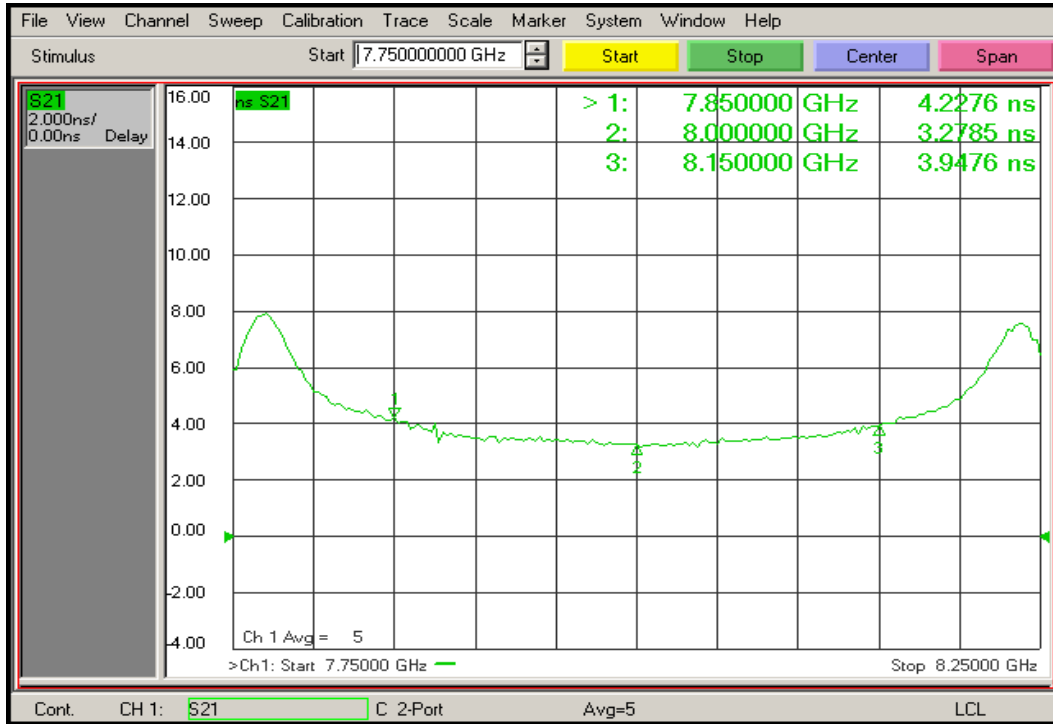
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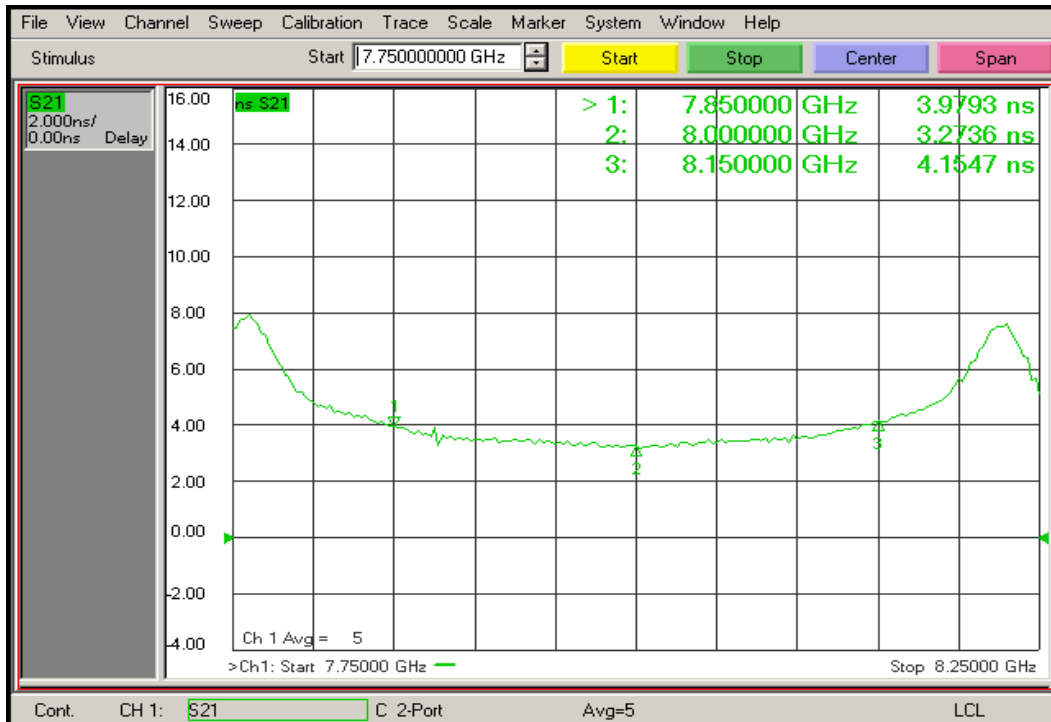
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**TYPICAL CHARACTERISTICS
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Group Delay 25°C



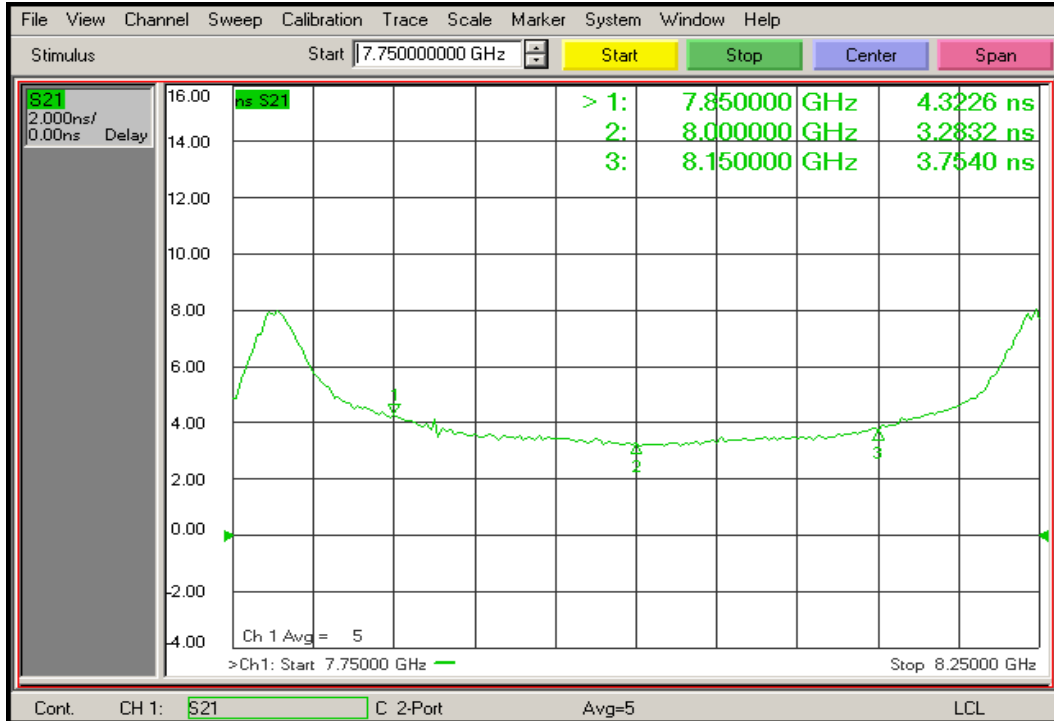
Group Delay 85°C



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**TYPICAL CHARACTERISTICS
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Group Delay -40°C



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