Quantic PMI
PLANAR MONOLITHICS

SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

Customer: [redacted]
SO No: [redacted]
Model No: P1T-7G18G-60-T-2W
Serial No: PL437 43/2402

Tested By: S. O'Neill
Temperature: +17°C
Date: 10/24/2025
Drawing No: 27630123 Rev: B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	7.0 to 17.5 GHz	**7.0 to 17.5 GHz**	PMI QA2
2	RF Power Handling:	0.08 W (30% Duty Cycle & 130 µs Pulse Width)	**0.08 dB**	
3	Isolation:	50 dB Min S21 to be measured from 6 to 18 GHz (1201 points) with DC voltage supply set to > 2.6 V (pulse modulator in the off state)	**73.61 dB See Plot**	
4	Insertion Loss:	3.2 dB Max Measured with control signal relative to its return (i.e. ON or low loss state) over 7 to 17.5 GHz frequency range	**2.7 dB See Plot**	
5	Insertion Loss Ripple:	0.3 dB Max (Over any 500 MHz bandwidth within the operating frequency)	**0.18 dB**	
6	VSWR (Into Termination/Source of 1.3:1)	1.8:1 Max (Port Selected, J1 & J2) 2.2:1 Max (Ports Not Selected, J1 ONLY) Evaluated from 7 to 11 GHz and 14.5 to 17.5 GHz only	**1.77:1 Port Selected 1.6:1 Port Not Selected See Plots**	
7	DC Power Dissipation On State:	1.25 W Max (V * I = P)	**+5V @ 0.046 A -15V @ 0.013 A P = 0.425 W**	
8	DC Power Dissipation Off State:	1.25 W Max (V * I = P)	**+5V @ 0.04 A -15V @ 0.016 A P = 0.44 W**	
9	Rise Time:	30-70 ns See Outline	**60.4 ns @ 9 GHz 53.0 ns @ 17 GHz**	
10	Fall Time:	50-100 ns See Outline	**66.5 ns @ 9 GHz 62.9 ns @ 17 GHz**	
11	On Switch Delay:	200 ns Min 250 ns Max	**242.9 ns @ 9 GHz 235.1 ns @ 17 GHz**	
12	Off Switch Delay:	105 ns Min 175 ns Max	**120.3 ns @ 9 GHz 116.6 ns @ 17 GHz**	PMI QA2

QA/QC Approval: PMI QA2 Date: 2/6/2026

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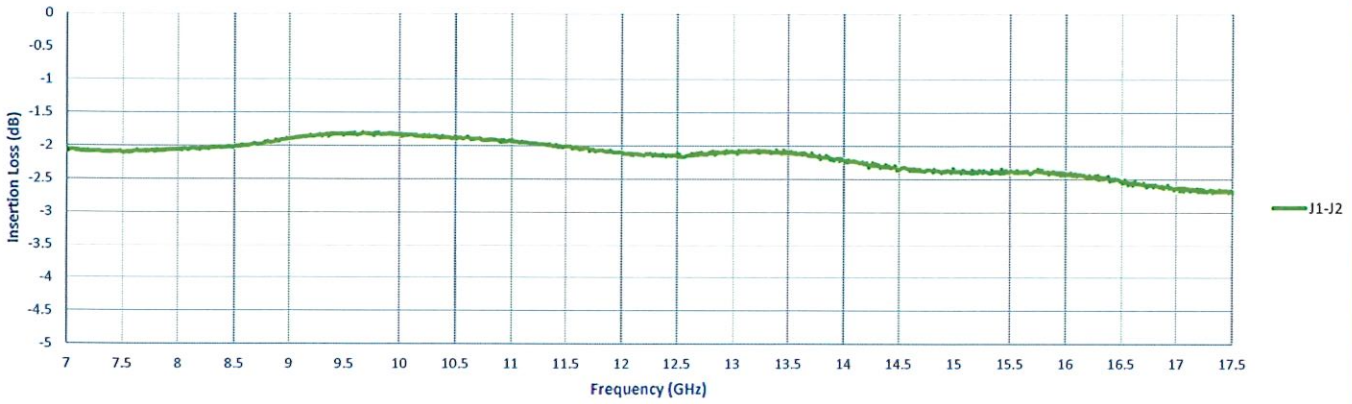
PLANAR MONOLITHICS

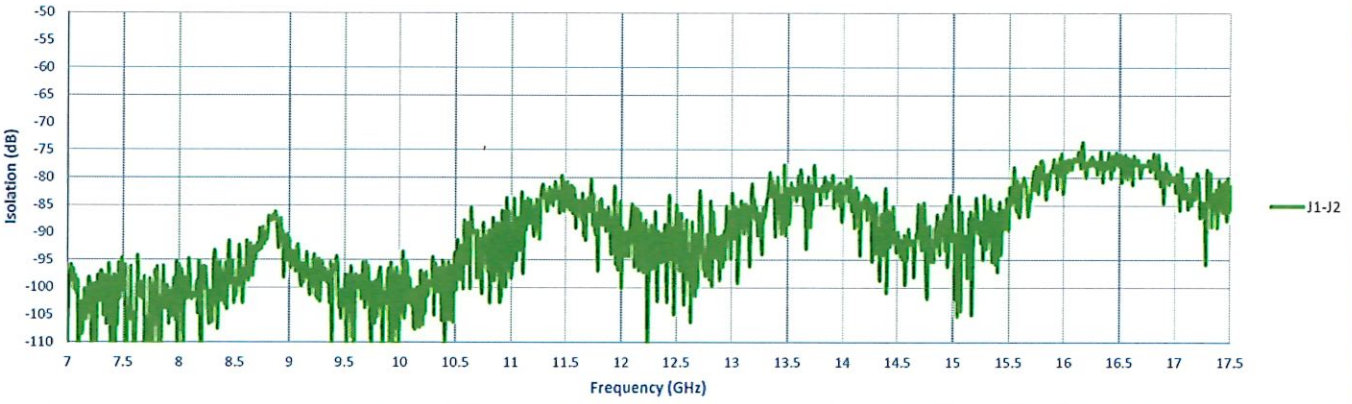
SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

FL43743/2402

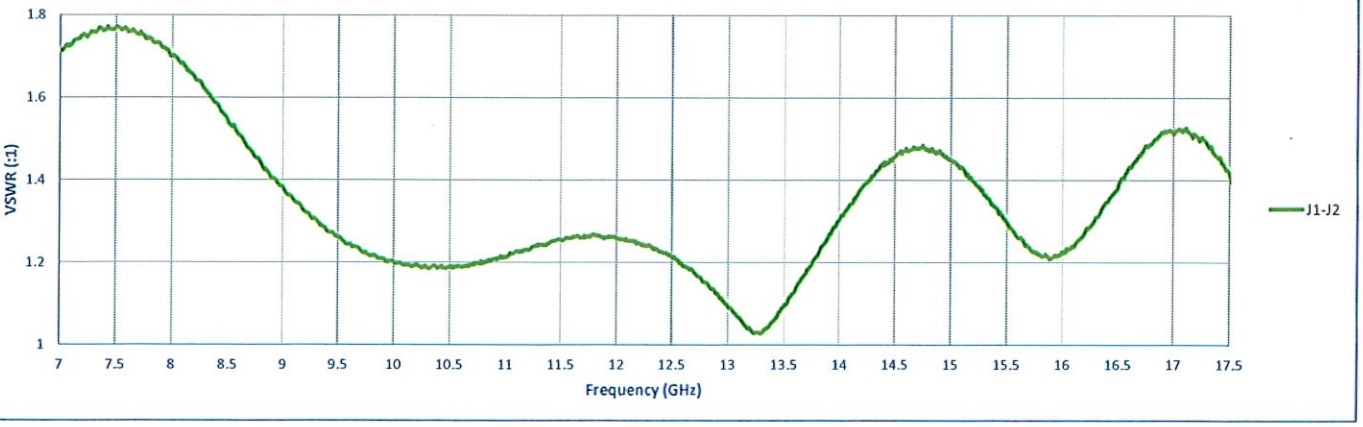
Insertion Loss



Isolation



J1 On State VSWR



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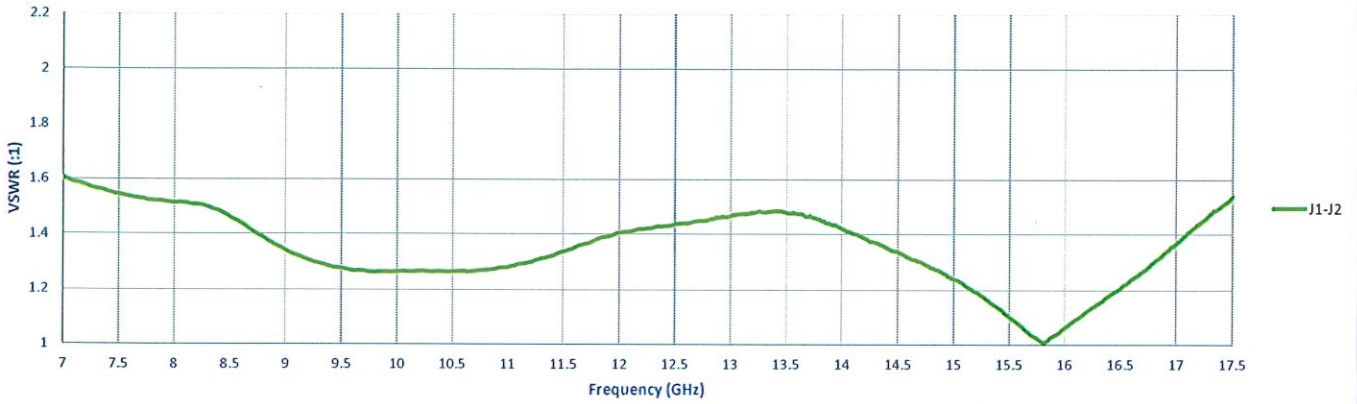
PLANAR MONOLITHICS

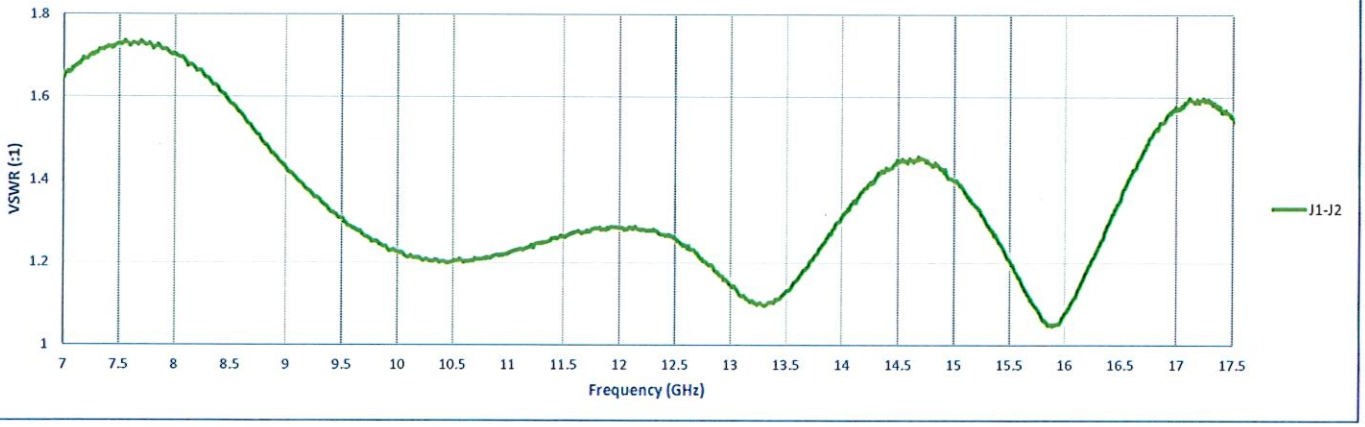
SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

PL43743/2402

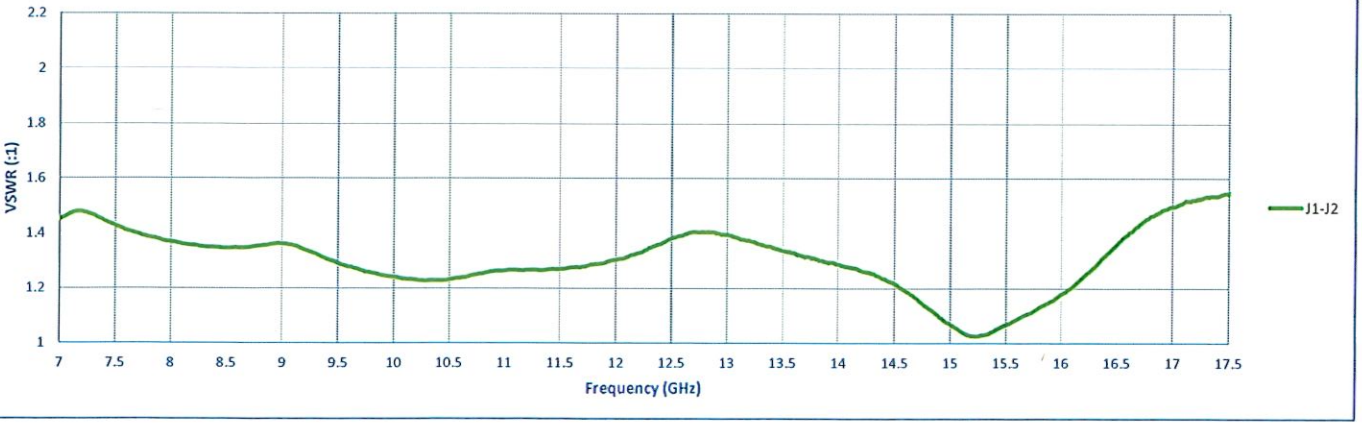
J1 Off State VSWR



J2 On State VSWR



J2 Off State VSWR



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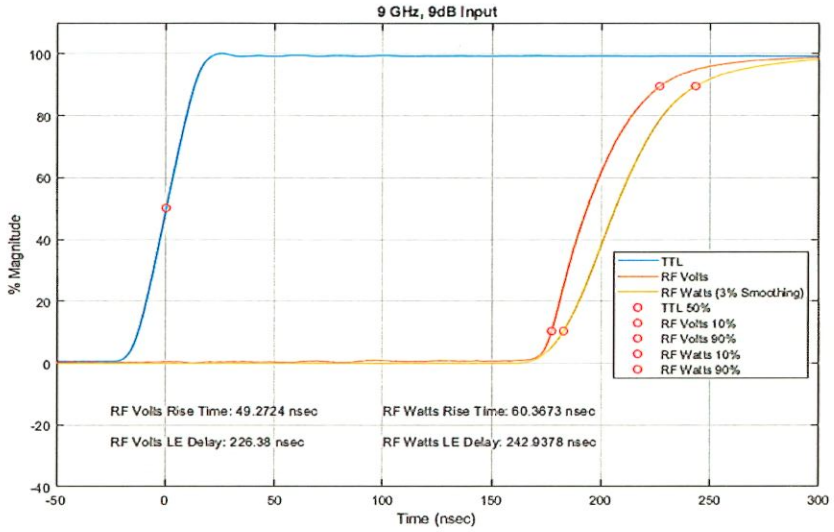
PLANAR MONOLITHICS

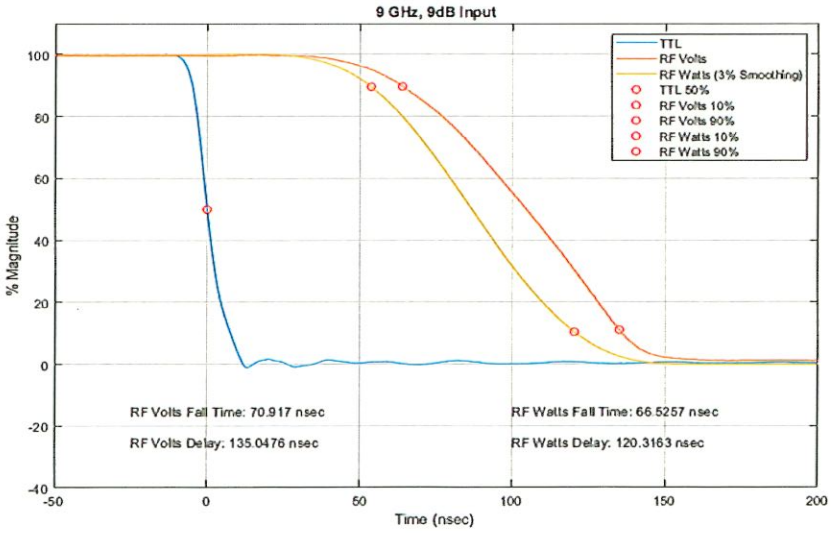
SUMMARY TEST DATA
ON
P1T-7G18G-60-T-2W

LAV1900

Rise Time - J1-J2 @ 9 GHz



Fall Time - J1-J2 @ 9 GHz



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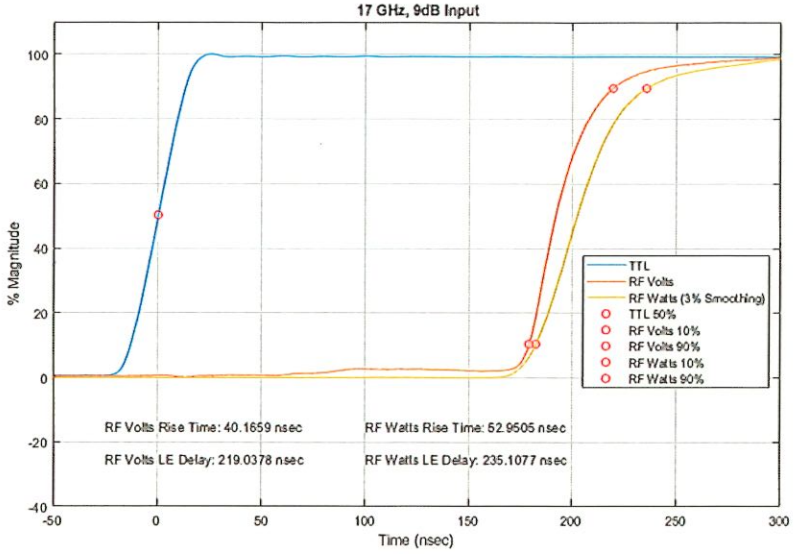
PLANAR MONOLITHICS

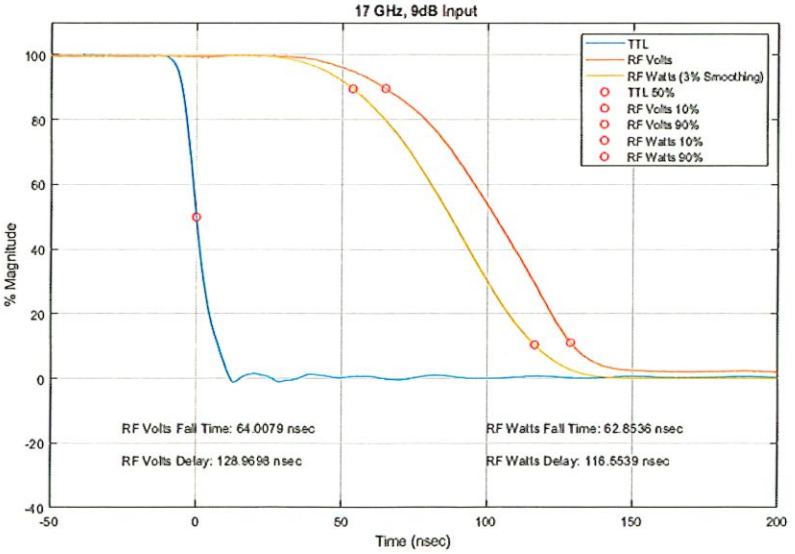
SUMMARY TEST DATA
ON
P1T-7G18G-60-T-2W

10/1900

Rise Time - J1-J2 @ 17 GHz



Fall Time - J1-J2 @ 17 GHz



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PLANAR MONOLITHICS

SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

Customer: Northrop Grumman, MD
SO No: 20240333
Model No: P1T-7G18G-60-T-2W
Serial No: PL43743/2402

Tested By: S. O'Neill
Temperature: +25°C
Date: 10/24/2025
Drawing No: 27630123 Rev: B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	7.0 to 17.5 GHz	7.0 to 17.5 GHz	PMI QA2
2	RF Power Handling:	0.08 W (30% Duty Cycle & 130 µs Pulse Width)	0.08 dB	
3	Isolation:	50 dB Min S21 to be measured from 6 to 18 GHz (1201 points) with DC voltage supply set to > 2.6 V (pulse modulator in the off state)	73.14 dB See Plot	
4	Insertion Loss:	3.2 dB Max Measured with control signal relative to its return (i.e. ON or low loss state) over 7 to 17.5 GHz frequency range	2.74 dB See Plot	
5	Insertion Loss Ripple:	0.3 dB Max (Over any 500 MHz bandwidth within the operating frequency)	0.18 dB	
6	VSWR (Into Termination/Source of 1.3:1)	1.8:1 Max (Port Selected, J1 & J2) 2.2:1 Max (Ports Not Selected, J1 ONLY) Evaluated from 7 to 11 GHz and 14.5 to 17.5 GHz only	1.77:1 Port Selected 1.6:1 Port Not Selected See Plots	
7	DC Power Dissipation On State:	1.25 W Max (V * I = P)	+5V @ 0.046 A -15V @ 0.013 A P = 0.425 W	
8	DC Power Dissipation Off State:	1.25 W Max (V * I = P)	+5V @ 0.04 A -15V @ 0.016 A P = 0.44 W	
9	Rise Time:	30-70 ns See Outline	60.6 ns @ 9 GHz 53.7 ns @ 17 GHz	
10	Fall Time:	50-100 ns See Outline	66.9 ns @ 9 GHz 63.3 ns @ 17 GHz	
11	On Switch Delay:	200 ns Min 250 ns Max	241.5 ns @ 9 GHz 234.5 ns @ 17 GHz	
12	Off Switch Delay:	105 ns Min 175 ns Max	121.1 ns @ 9 GHz 117.6 ns @ 17 GHz	PMI QA2

QA/QC Approval: PMI QA2 Date: 2/6/2026

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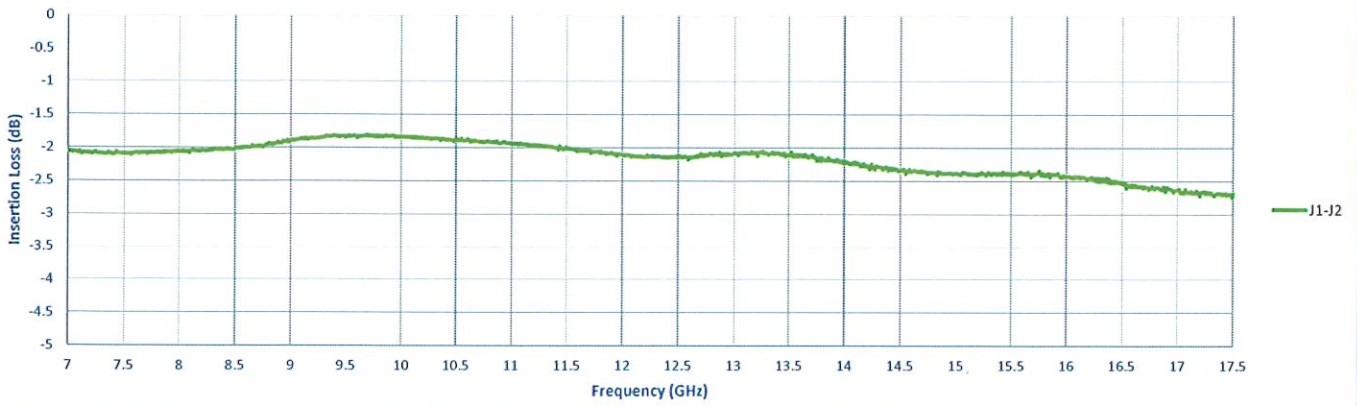
PLANAR MONOLITHICS

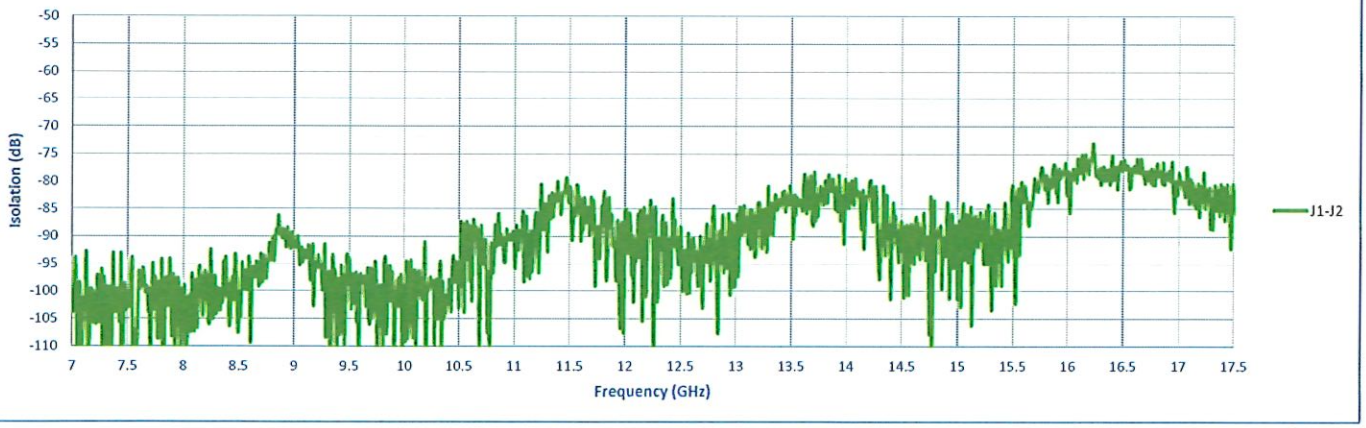
SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

PL43743/2402

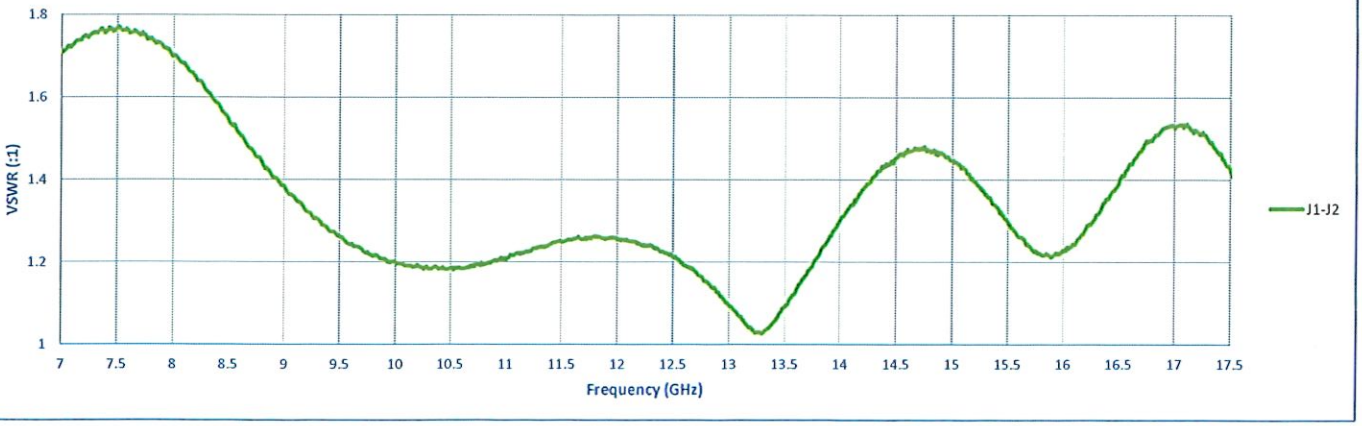
Insertion Loss



Isolation



J1 On State VSWR



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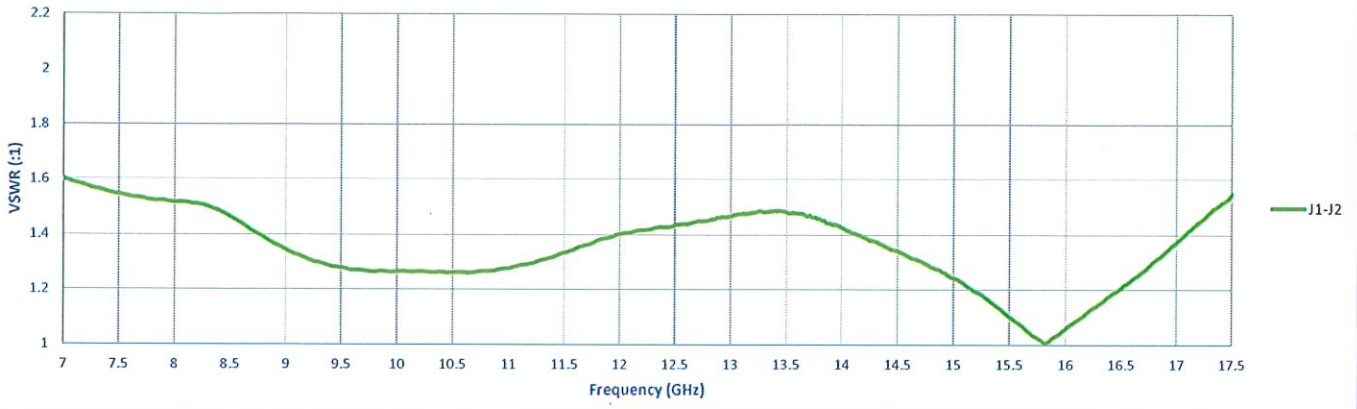
PLANAR MONOLITHICS

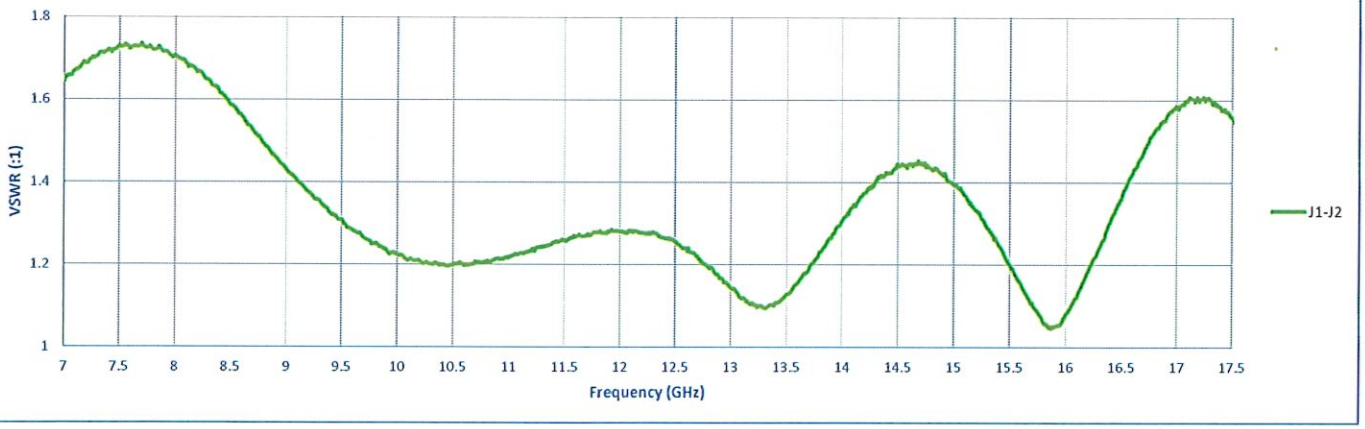
SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

PL43743/2402

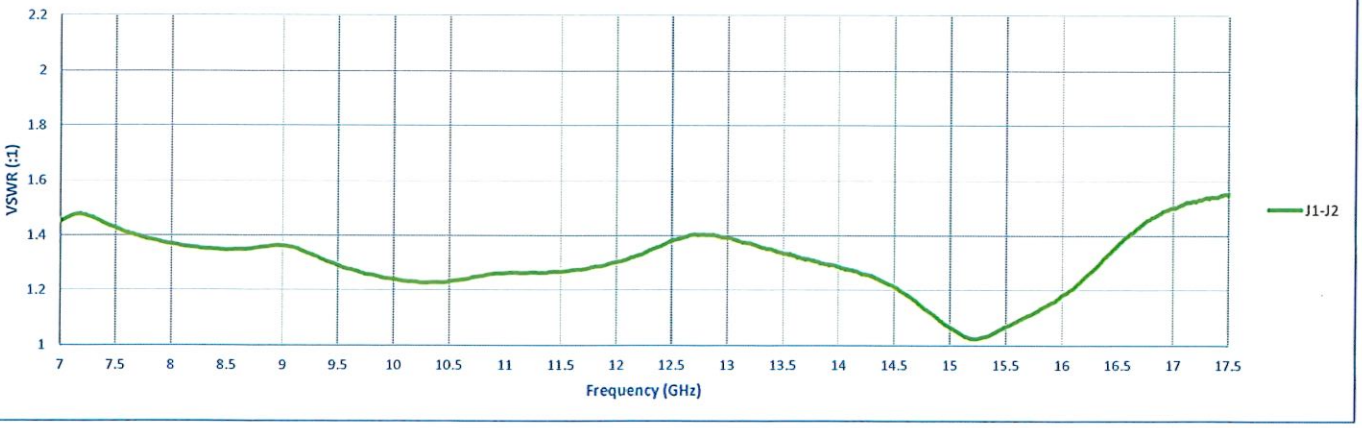
J1 Off State VSWR



J2 On State VSWR



J2 Off State VSWR



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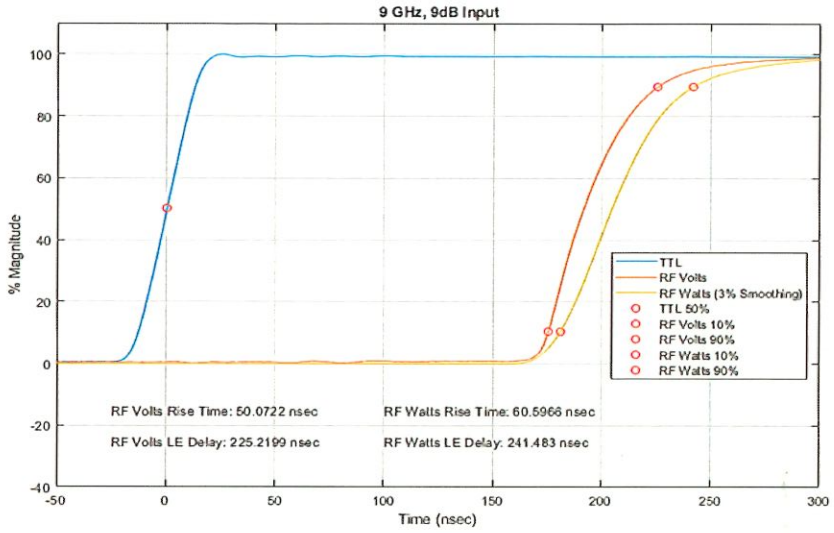
PLANAR MONOLITHICS

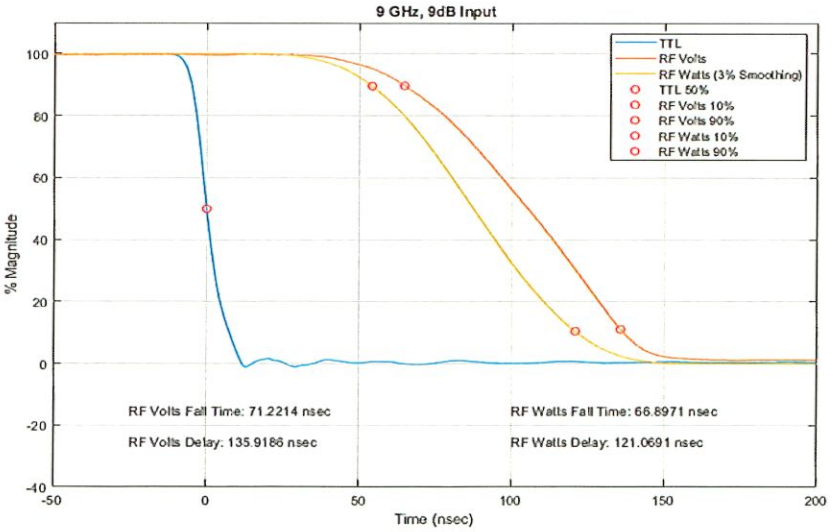
SUMMARY TEST DATA
ON
P1T-7G18G-60-T-2W

LM1900

Rise Time - J1-J2 @ 9 GHz



Fall Time - J1-J2 @ 9 GHz



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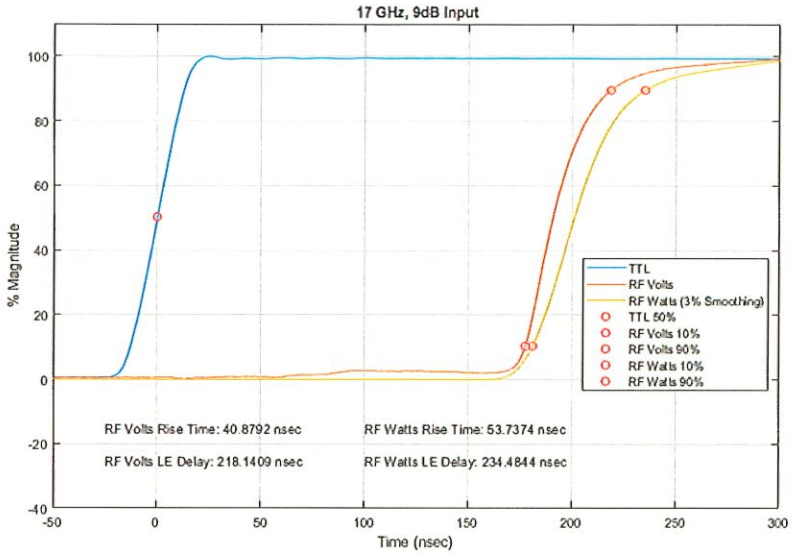
PLANAR MONOLITHICS

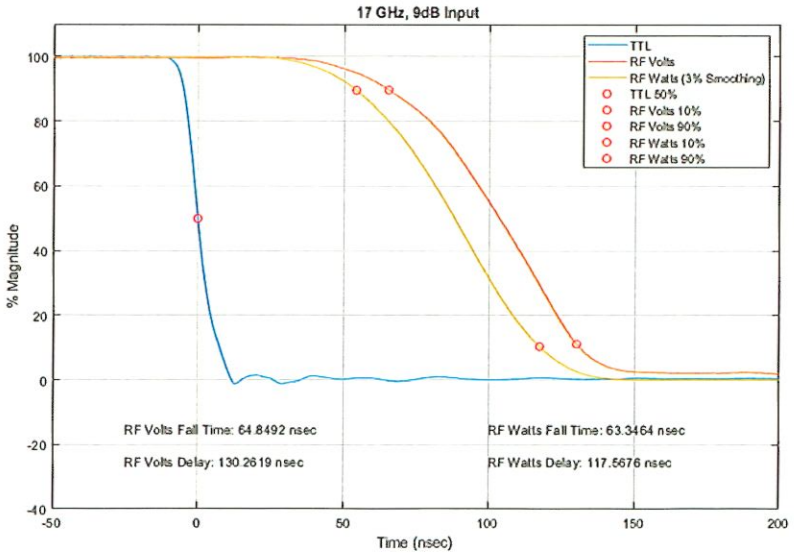
SUMMARY TEST DATA
ON
P1T-7G18G-60-T-2W

LO/1900

Rise Time - J1-J2 @ 17 GHz



Fall Time - J1-J2 @ 17 GHz



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PLANAR MONOLITHICS

SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

Customer: Northrop Grumman, MD
SO No: 20240333
Model No: P1T-7G18G-60-T-2W
Serial No: PL43743/2402

Tested By: S. O'Neill
Temperature: +42°C
Date: 10/24/2025
Drawing No: 27630123 Rev: B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	7.0 to 17.5 GHz	7.0 to 17.5 GHz	PMI QA2
2	RF Power Handling:	0.08 W (30% Duty Cycle & 130 µs Pulse Width)	0.08 dB	
3	Isolation:	50 dB Min S21 to be measured from 6 to 18 GHz (1201 points) with DC voltage supply set to > 2.6 V (pulse modulator in the off state)	74.15 dB See Plot	
4	Insertion Loss:	3.2 dB Max Measured with control signal relative to its return (i.e. ON or low loss state) over 7 to 17.5 GHz frequency range	2.76 dB See Plot	
5	Insertion Loss Ripple:	0.3 dB Max (Over any 500 MHz bandwidth within the operating frequency)	0.2 dB	
6	VSWR (Into Termination/Source of 1.3:1)	1.8:1 Max (Port Selected, J1 & J2) 2.2:1 Max (Ports Not Selected, J1 ONLY) Evaluated from 7 to 11 GHz and 14.5 to 17.5 GHz only	1.75:1 Port Selected 1.59:1 Port Not Selected See Plots	
7	DC Power Dissipation On State:	1.25 W Max (V * I = P)	+5V @ 0.046 A -15V @ 0.013 A P = 0.425 W	
8	DC Power Dissipation Off State:	1.25 W Max (V * I = P)	+5V @ 0.04 A -15V @ 0.016 A P = 0.44 W	
9	Rise Time:	30-70 ns See Outline	62.3 ns @ 9 GHz 55.6 ns @ 17 GHz	
10	Fall Time:	50-100 ns See Outline	67.7 ns @ 9 GHz 64.5 ns @ 17 GHz	
11	On Switch Delay:	200 ns Min 250 ns Max	238.1 ns @ 9 GHz 231.0 ns @ 17 GHz	
12	Off Switch Delay:	105 ns Min 175 ns Max	122.8 ns @ 9 GHz 119.5 ns @ 17 GHz	PMI QA2

QA/QC Approval: PMI QA2 Date:

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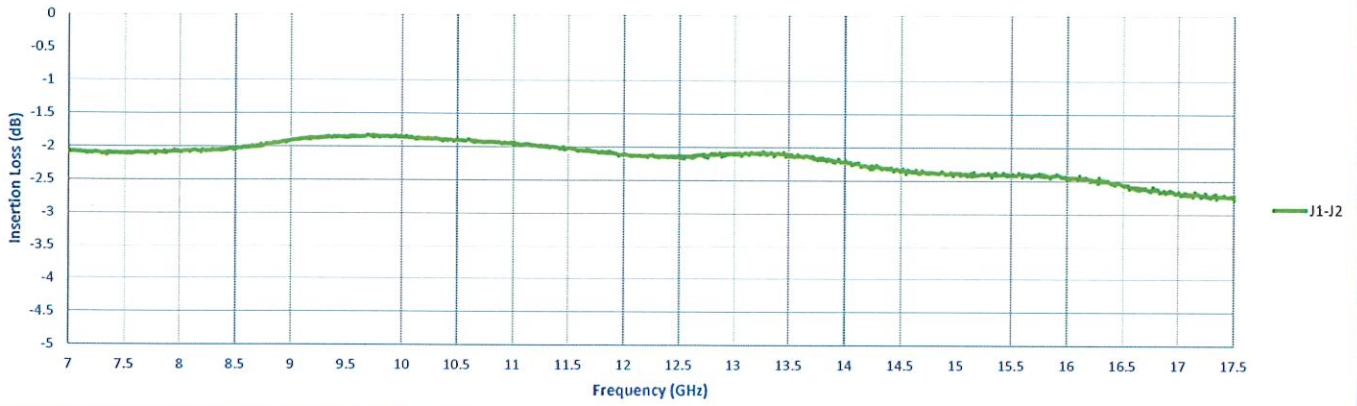
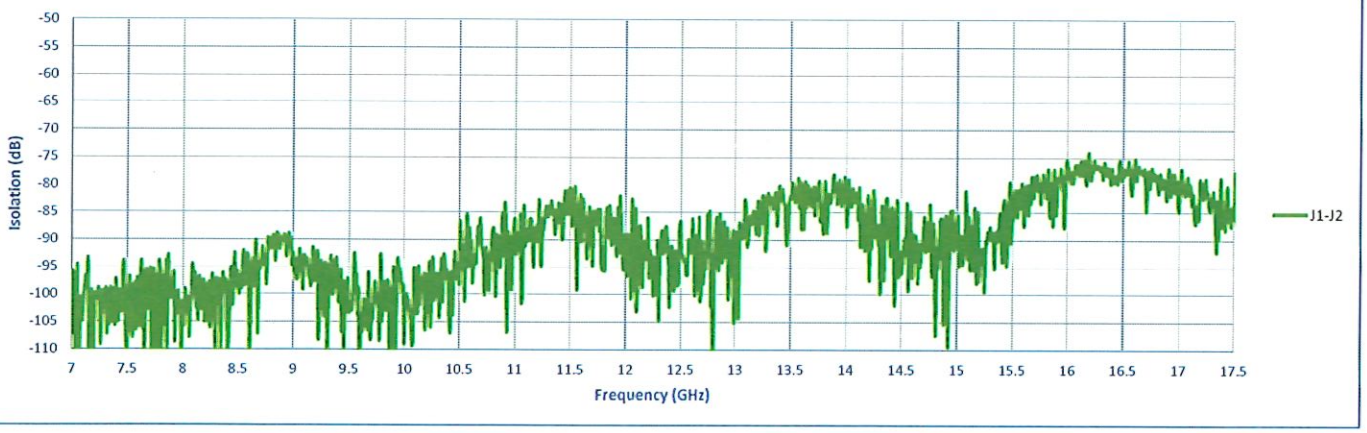
PLANAR MONOLITHICS

SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

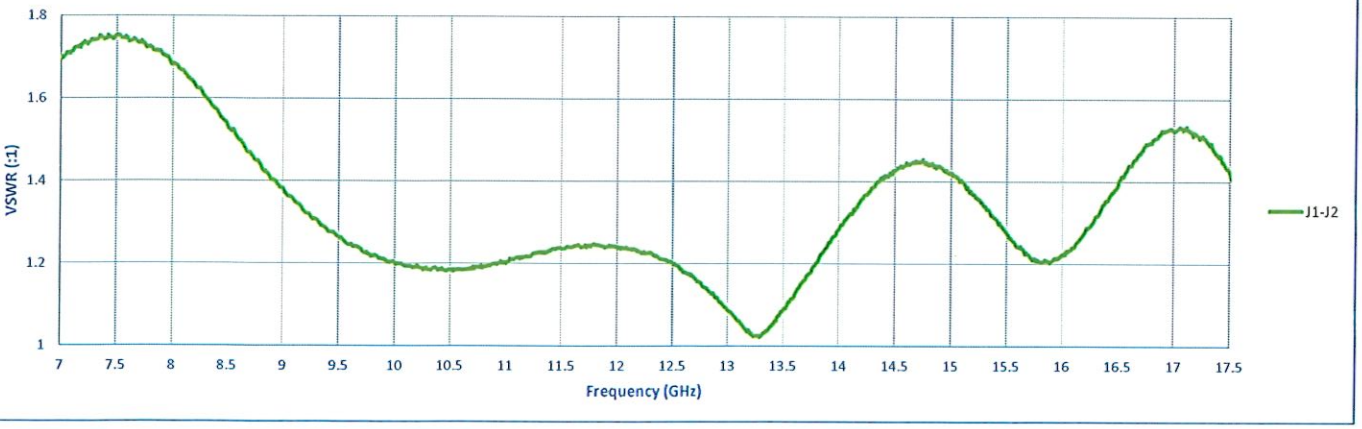
Insertion Loss



Isolation



J1 On State VSWR



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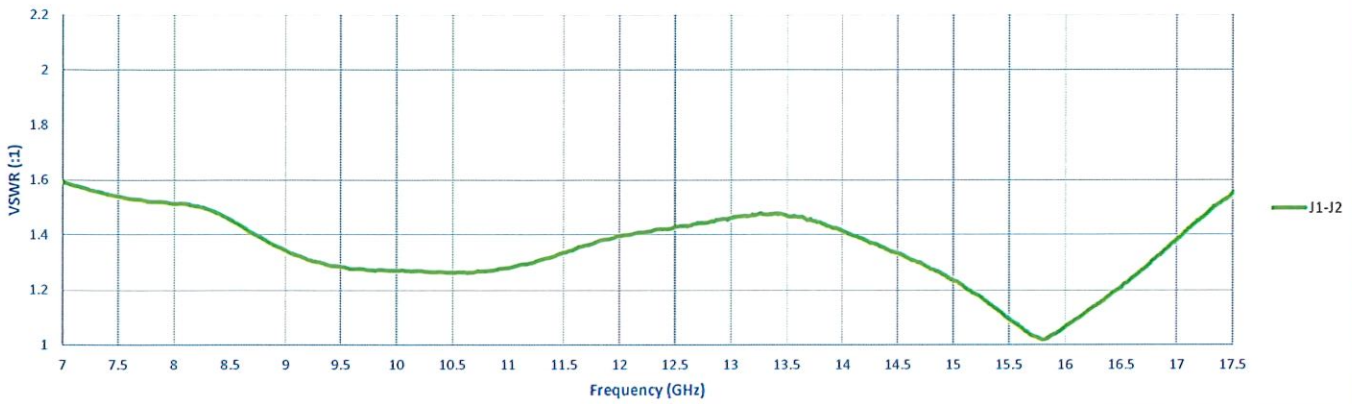
PLANAR MONOLITHICS

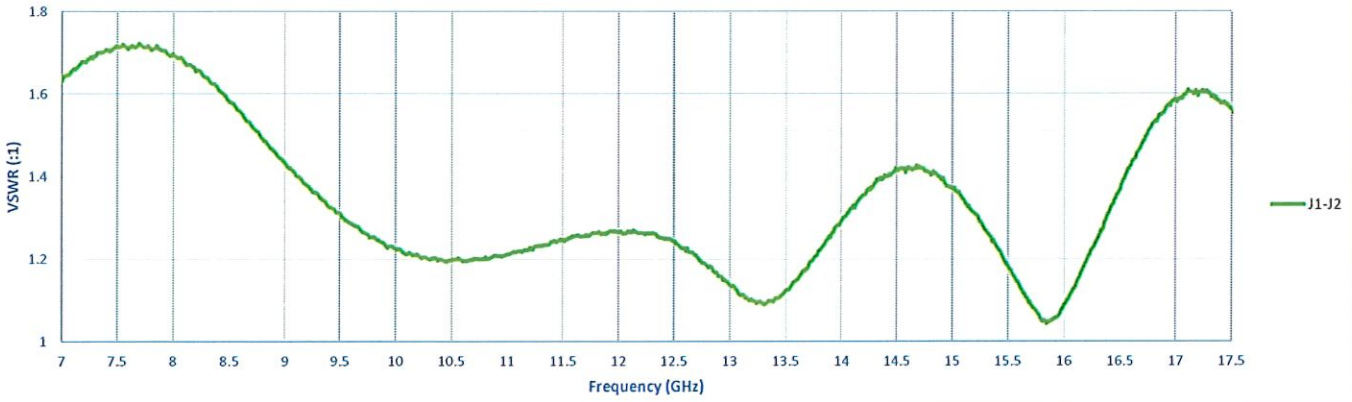
SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

PL43743/2402

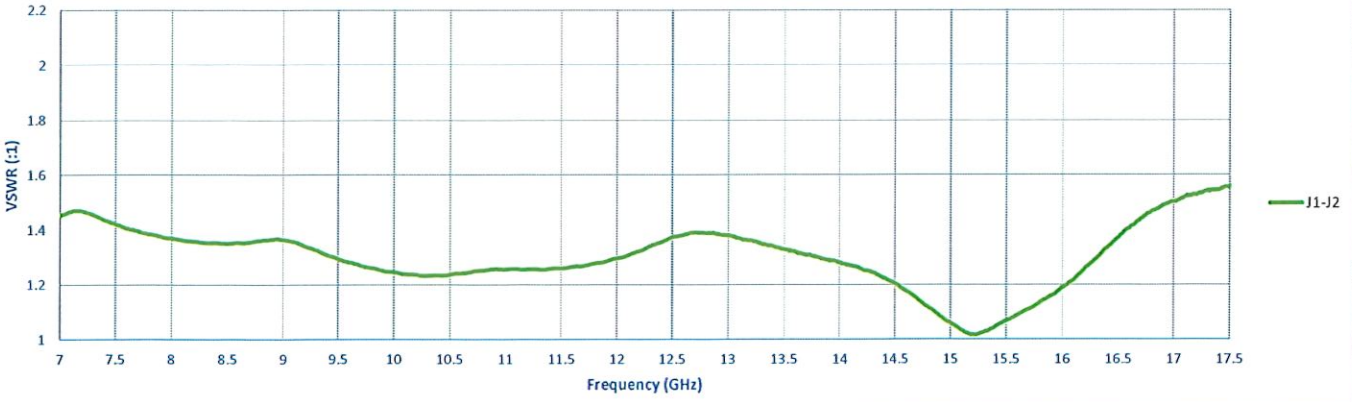
J1 Off State VSWR



J2 On State VSWR



J2 Off State VSWR



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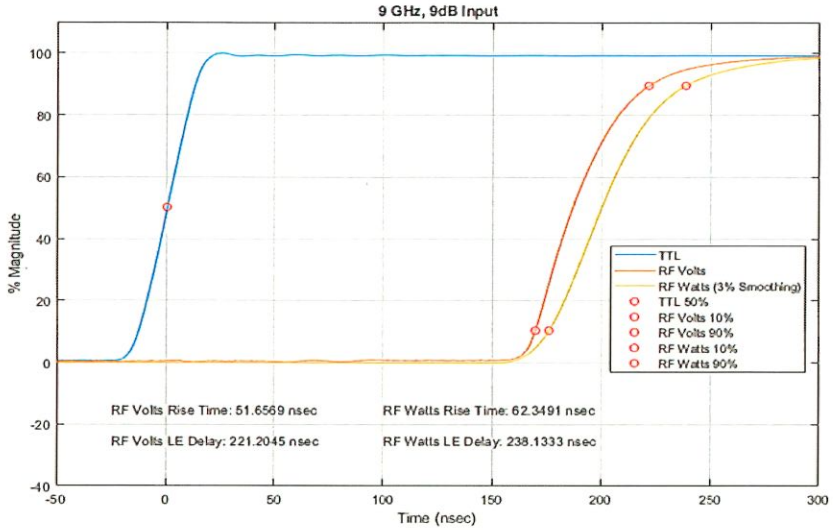
PLANAR MONOLITHICS

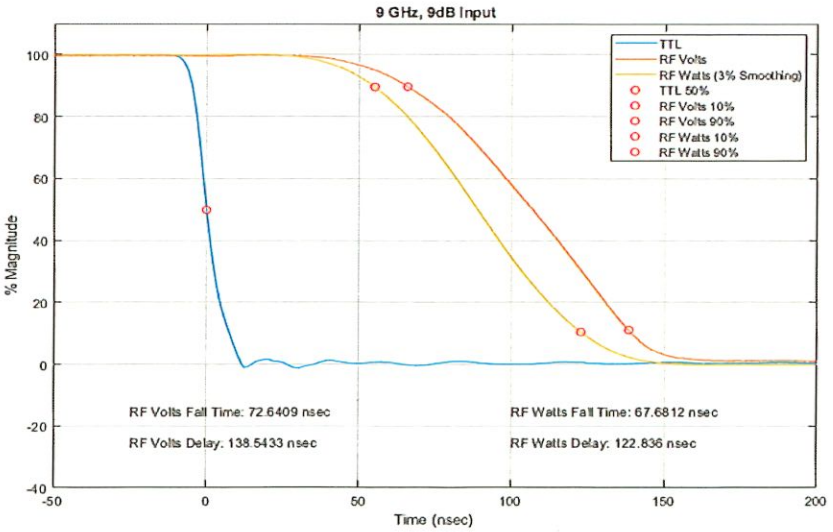
LAV1900

SUMMARY TEST DATA
ON
P1T-7G18G-60-T-2W

Rise Time - J1-J2 @ 9 GHz



Fall Time - J1-J2 @ 9 GHz



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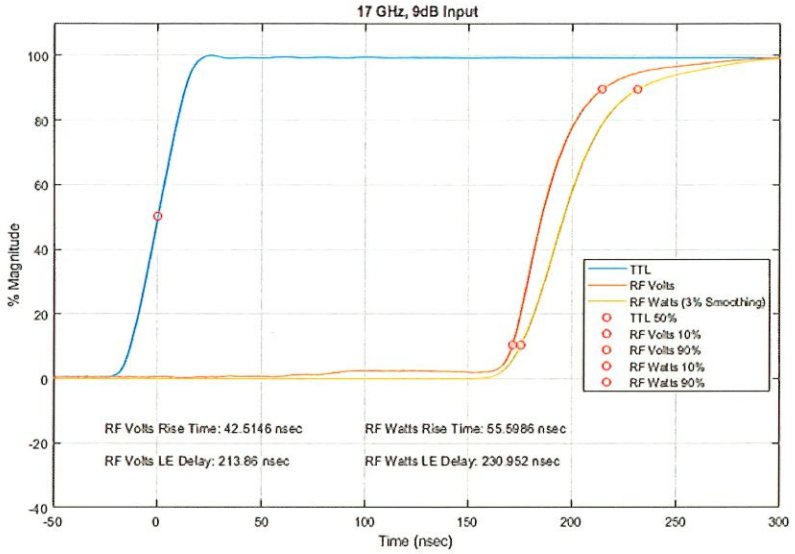
PLANAR MONOLITHICS

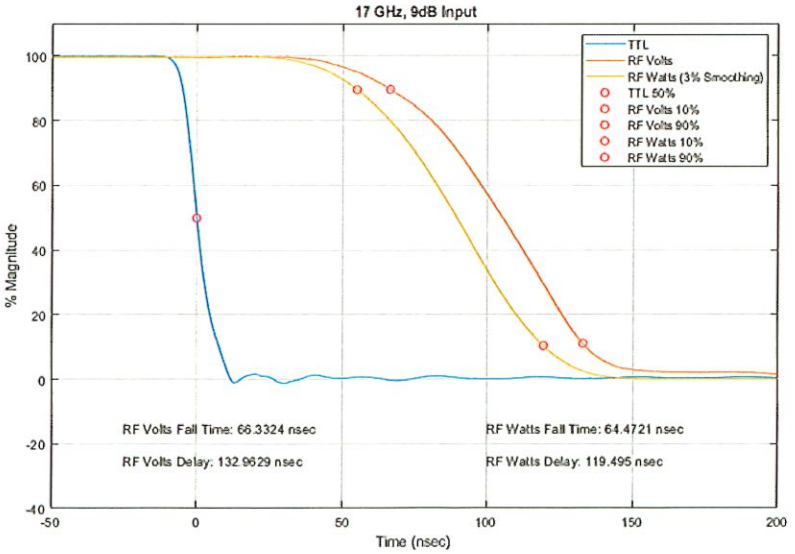
SUMMARY TEST DATA ON P1T-7G18G-60-T-2W

LM1900

Rise Time - J1-J2 @ 17 GHz



Fall Time - J1-J2 @ 17 GHz



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