



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PSD-2G6G-CD-2 IS
AN INTEGRATED LIMITER SWITCH BOX ASSEMBLY.**



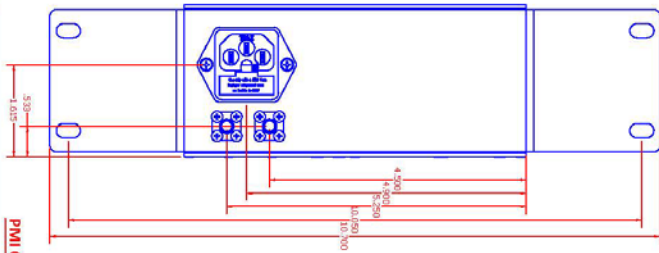
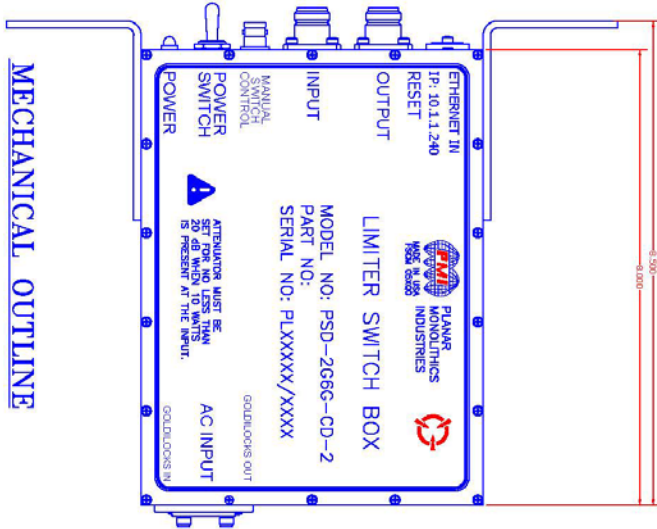
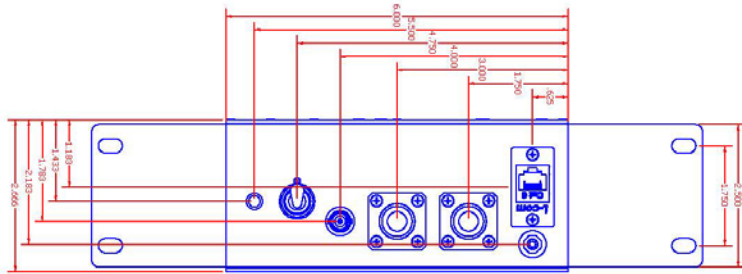


TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

DESCRIPTION

PMI MODEL PSD-2G6G-CD-2 IS A INTEGRATED LIMITER SWITCH BOX ASSEMBLY WITH THE FOLLOWING SPECIFICATIONS:

ZONE		REQ	DESCRIPTION	DATE	APPROVED
1			ORIGINAL RELEASE	1/17/14	




MECHANICAL OUTLINE

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS ARE IN INCHES
TOLERANCES
XXX .015

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
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ISO 9001 CERTIFIED



PRODUCT FEATURE
PSD-2G6G-CD-2

DATE	APPROVALS
1/17/14	<i>[Signature]</i>
ISSUED	

SIZE	FORM NO.	REV. NO.	DATE	ISSUED	SHEET
A	05X00		27020841		1 OF 3

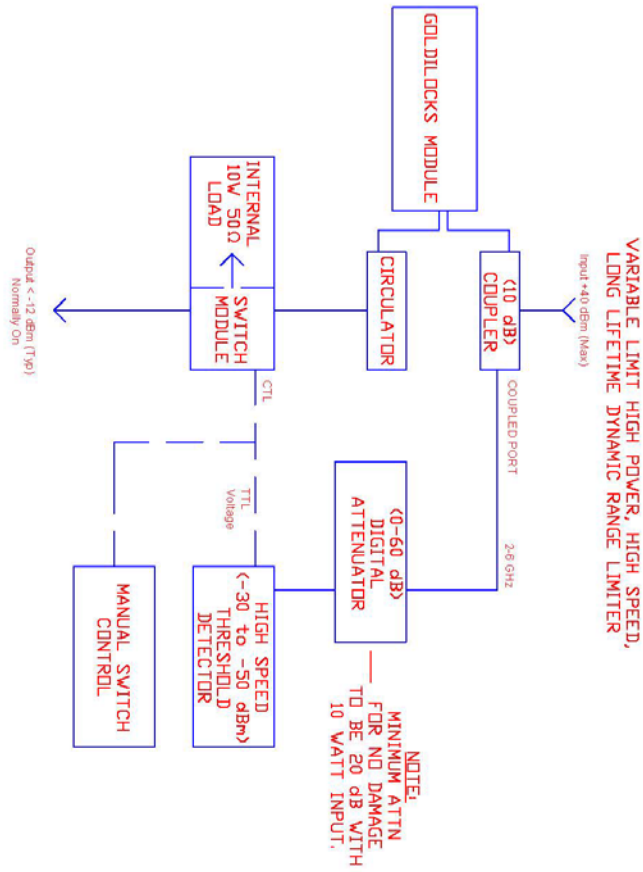


TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

DESCRIPTION

PMI MODEL PSD-2G6G-CD-2 IS A INTEGRATED LIMITER SWITCH BOX ASSEMBLY WITH THE FOLLOWING SPECIFICATIONS:

BLOCK DIAGRAM



- ENVIRONMENTAL RATINGS**
- TEMPERATURES: -35C TO +85C (OPERATING)
-40C TO +85C (STORAGE)
 - HUMIDITY: MIL-STD-202F, METHOD 1039 COND. B
 - SHOCK: MIL-STD-202F, METHOD 2139 COND. B
 - VIBRATION: MIL-STD-202F, METHOD 2049 COND. B
 - ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
 - TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A
- NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES
XXX .005

REV		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
1		ORIGINAL RELEASE	11/11/18	

PLANAR MONOLITHICS INDUSTRIES, INC.
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PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE	TITLE
<i>JLS</i>	11/11/18	PRODUCT FEATURE PSD-2G6G-CD-2
DESIGN		SIZE FROM NO.
ISSUED		QTY FROM NO.
		SCALE N/S
		SHEET 2 OF 3
		REV. 1



TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

DESCRIPTION

PMI MODEL PSD-2G6G-CD-2 IS A INTEGRATED LIMITER SWITCH BOX ASSEMBLY WITH THE FOLLOWING SPECIFICATIONS:


SPECIFICATIONS

- FINAL ASSEMBLY: _____
- FREQUENCY RESPONSE: 2.0 – 6.0 GHz
- POWER: 110VAC ONLY, 50/60Hz
- SIZE: (L) 8.0" X (W) 6.0" X (H) 2.66"
- FINISH: BLACK POWDER COATING
- WEIGHT: 15 POUNDS(LBS) TYPICAL
- PIN DIODE SWITCH MODULE: _____
- POWER HANDLING: >= 10 W
- FREQUENCY RESPONSE: 2.0 – 6.0 GHz
- SWITCHING SPEED: < 50 ns
- ISOLATION (INPUT/OUTPUT): 85 dB TYP.
- INSERTION LOSS: 3 dB TYP.
- **NOTE: NOT TO BE SWITCHED ANY HIGHER THAN 50 KHz (PRI).
- THRESHOLD DETECTOR: _____
- FREQUENCY RESPONSE: 2.0 – 6.0 GHz
- SWITCHING SPEED: < 50 ns
- OUTPUT TYPE: TTL (Compatible with Pin Switch)
- SENSITIVITY: < -40dBm
- MAX POWER (NO DAMAGE): 10 dbm CW.
- COUPLER: _____
- POWER HANDLING: 10 W CW MAX.
- FREQUENCY RESPONSE: 2.0 – 6.0 GHz
- COUPLING FACTOR: 10 dB
- DIGITAL ATTENUATOR: _____
- POWER HANDLING (MAX): 2 W AVG.
- FREQUENCY RESPONSE: 2.0 – 6.0 GHz
- ATTENUATION: 0 – 60 – ETHERNET CONTROL
- LSB: 0.06 dB
- INSERTION LOSS: 3.5 dB TYP.
- INPUT TO OUTPUT _____
- INSERTION LOSS: 6 dB TYP.
- ISOLATION IN "OFF" MODE: 85 dB TYP.
- ENVIRONMENTAL RATINGS
- TEMPERATURE: -35C TO +85C (OPERATING)
-40C TO +85C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 2040 COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

**NOTE: ATTENUATOR MUST BE SET FOR NO LESS THAN 20 DB WHEN 10 WATTS IS PRESENT AT THE INPUT.

ALL DIMENSIONS ARE IN INCHES
TOLERANCES
X.XX .013

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	11/11/18	

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PMI CONFIDENTIAL AND PROPRIETARY		PRODUCT FEATURE PSD-2G6G-CD-2	
APPROVALS DESIGN: 2.4.8 ISSUED: _____	DATE: 11/11/18	TITLE: PSD-2G6G-CD-2 SIZE: FROM NO. A SCALE: N:S 05X00	SHEET: 3 OF 3 REV: 1



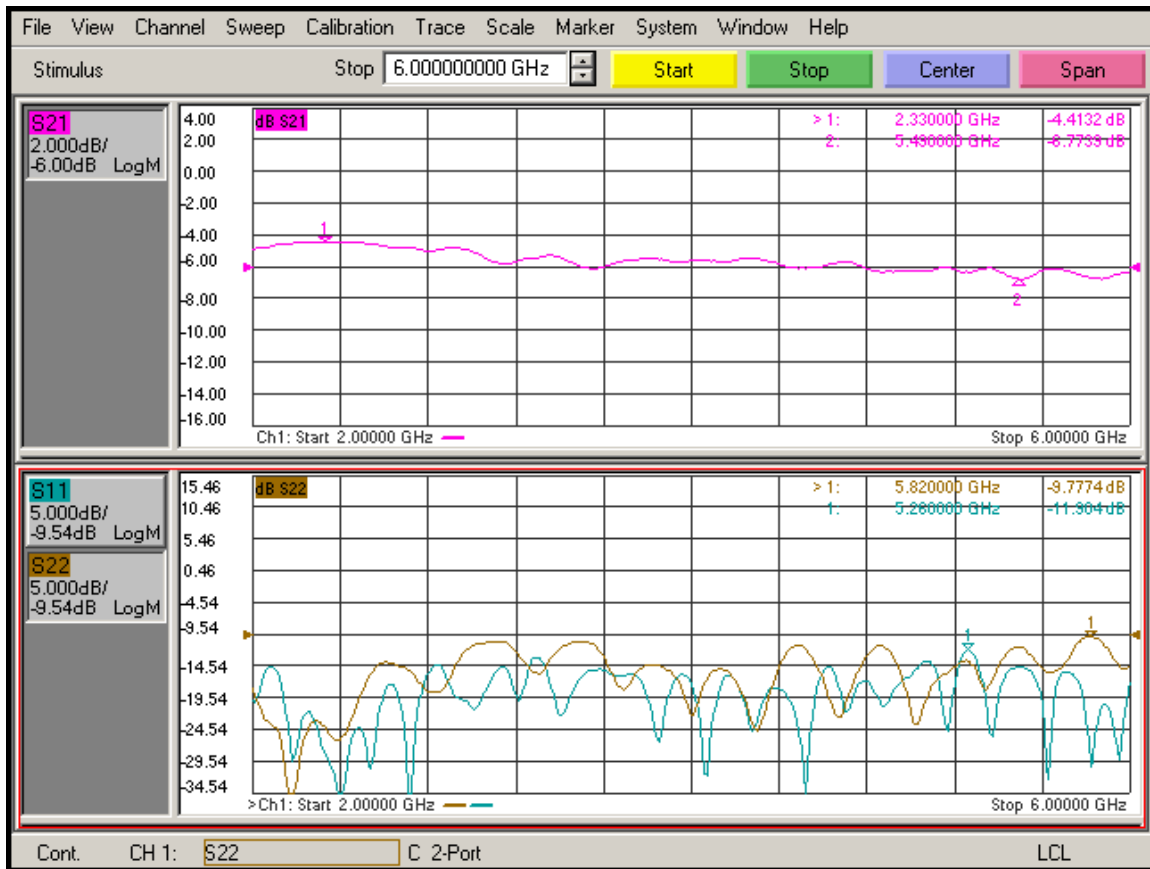
**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1.0	FINAL ASSEMBLY			
1.1	Frequency Response:	2.0 - 6.0 GHz	2.0 – 6.0 GHz	
1.2	Power	110 VAC Only 50/60Hz	110 VAC Only 50/60Hz	
2.0	(SEE ATTACHED DATASHEET)	Pin Diode Switch PL14820/1413	**NOTE NOT TO BE SWITCHED ANY HIGHER THAN 50 KHz (PRI)	
2.1	Power Handling:	≥ 10 W	Pass	
2.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
2.3	Switching Speed:	< 50 ns	See Datasheet	
2.4	Isolation (Input/Output):	85 dB Typ.	74.9 dB See Plot	
2.5	Insertion Loss:	3 dB Typ.	6.6 dB See Plot	
3.0	(SEE ATTACHED DATASHEET)	Threshold Detector PL14760/1411		
3.1	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
3.2	Switching Speed:	< 50 ns	Pass	
3.3	Output Type:	TTL (Compatible with Pin Switch)	Pass	
3.4	Sensitivity:	< -40 dBm	Pass	
3.5	Max Power No Damage:	10 dBm	Pass	
4.0	Coupler			
4.1	Power Handling:	10 W CW MAX	Pass	
4.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
4.3	Coupling Factor:	10 dB	10 dB	
5.0	(SEE ATTACHED DATASHEET)	Digital Attenuator PL14757-1410		
5.1	Power Handling (Max):	2 W AVG	PASS	
5.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
5.3	Attenuation:	0-60 dB – Ethernet Control	0-60 dB	
5.4	LSB:	0.06 dB	0.06 dB	
5.5	Insertion Loss:	3.5 dB TYP	4.5 dB See Plot	
6.0	Input to Output			
6.1	Insertion Loss:	6 dB TYP	See Insertion Loss Plot	
6.2	Isolation in "Off" Mode:	85 dB Typ.	See Isolation Plot	



TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

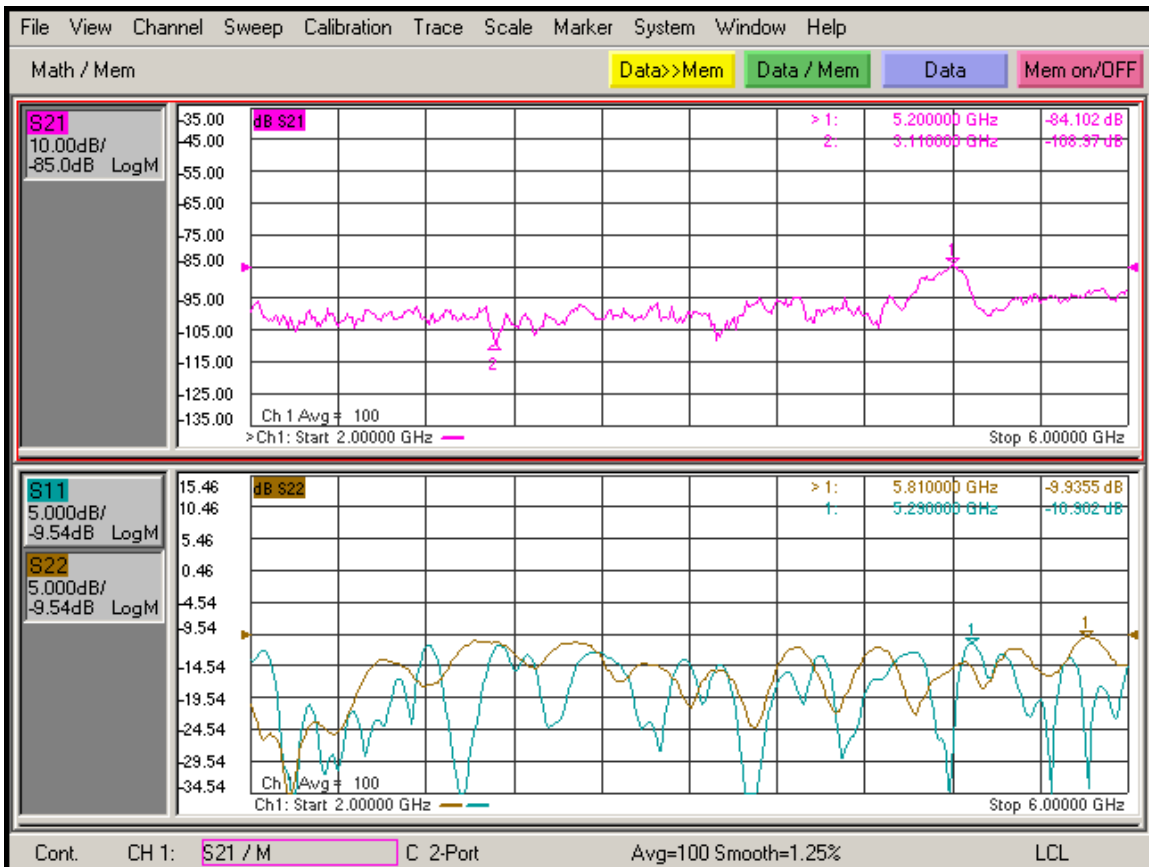
Insertion Loss and VSWR IN/OUT PSD-2G6G-CD-2





TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

Isolation Plots of PSD-2G6G-CD-2





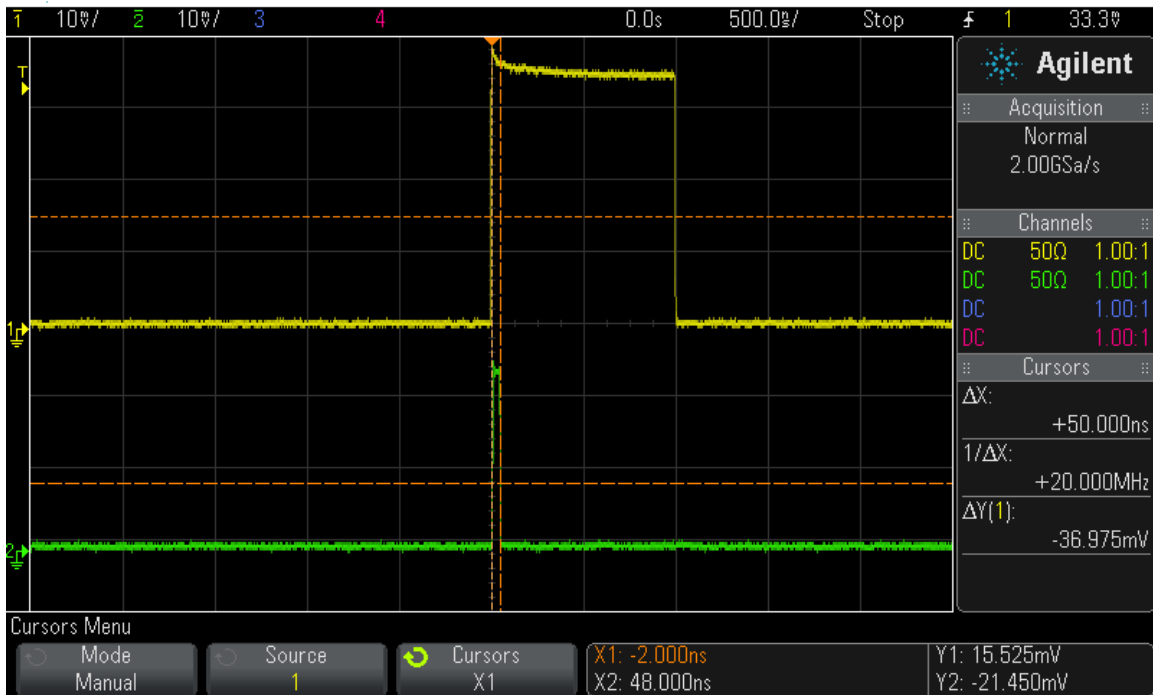
**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**Threshold Detector Blanking Switch
Full Pulse
PSD-2G6G-CD-2**



Agilent Technologies

Thu Apr 03 02:28:49 2014



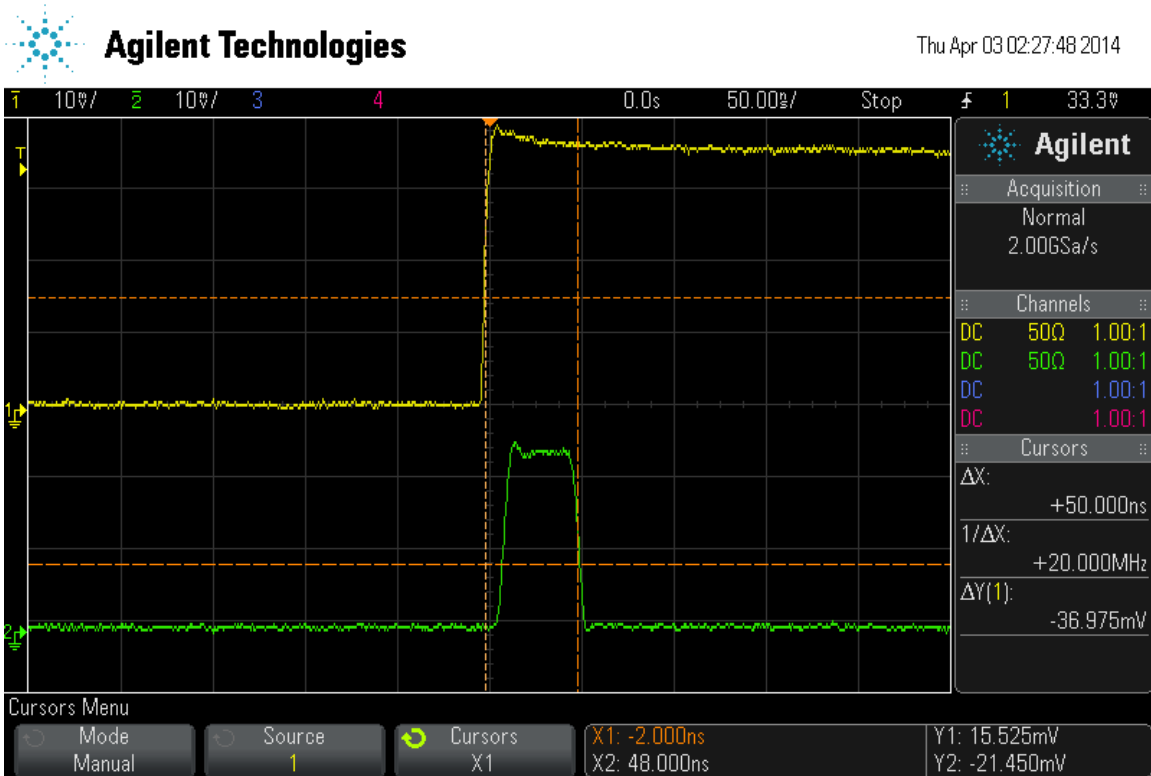
CHANNEL 1 (YELLOW TRACE) RF INPUT PULSE.

**CHANNEL 2 (GREEN TRACE) RF OUTPUT DEMONSTRATING WHEN
BLANKING SWITCH ACTIVATES.**



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**Threshold Detector Blanking Switch
Turn On Time
PSD-2G6G-CD-2**



CHANNEL 1 (YELLOW TRACE) RF INPUT PULSE.

**CHANNEL 2 (GREEN TRACE) RF OUTPUT DEMONSTRATING WHEN
BLANKING SWITCH ACTIVATES.**

**Manual Override Blanking Switch
Turn Off Time**

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



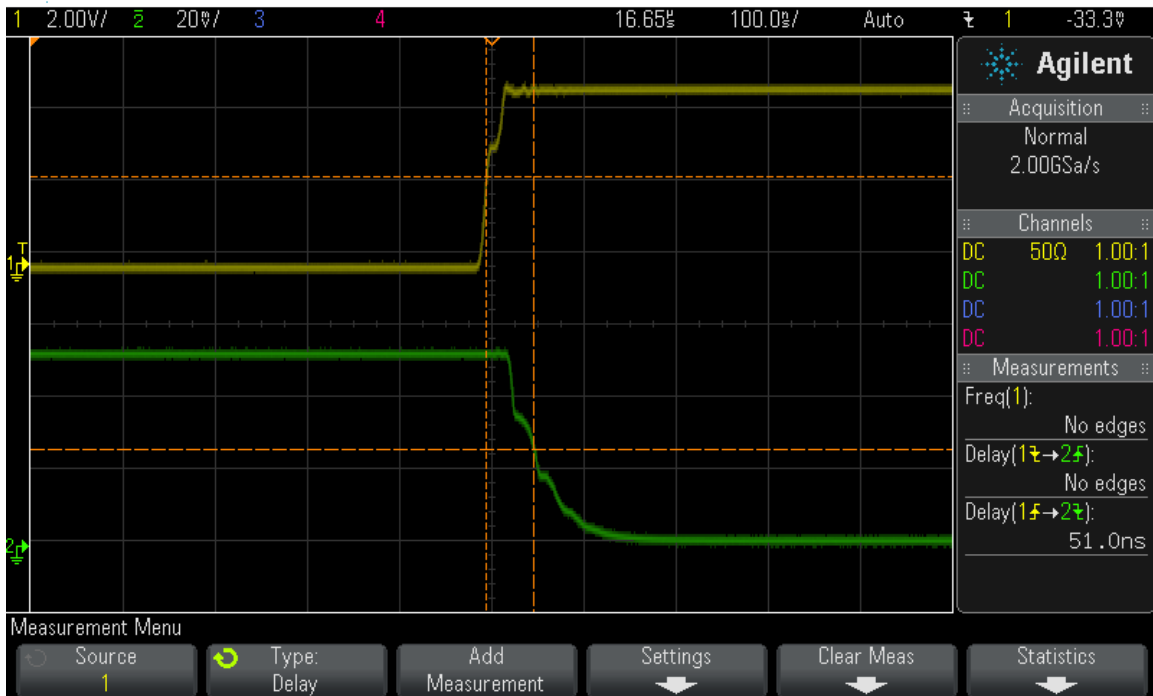
**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

PSD-2G6G-CD-2



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Thu Apr 03 03:08:41 2014



CHANNEL 1 (YELLOW TRACE) MANUAL OVERRIDE TTL INPUT.

**CHANNEL 2 (GREEN TRACE) RF OUTPUT DEMONSTRATING WHEN
BLANKING SWITCH ACTIVATES.**



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**Manual Override Blanking Switch
Turn On Time
PSD-2G6G-CD-2**



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Thu Apr 03 03:06:49 2014



CHANNEL 1 (YELLOW TRACE) MANUAL OVERRIDE TTL INPUT.

**CHANNEL 2 (GREEN TRACE) RF OUTPUT DEMONSTRATING WHEN
BLANKING SWITCH ACTIVATES.**



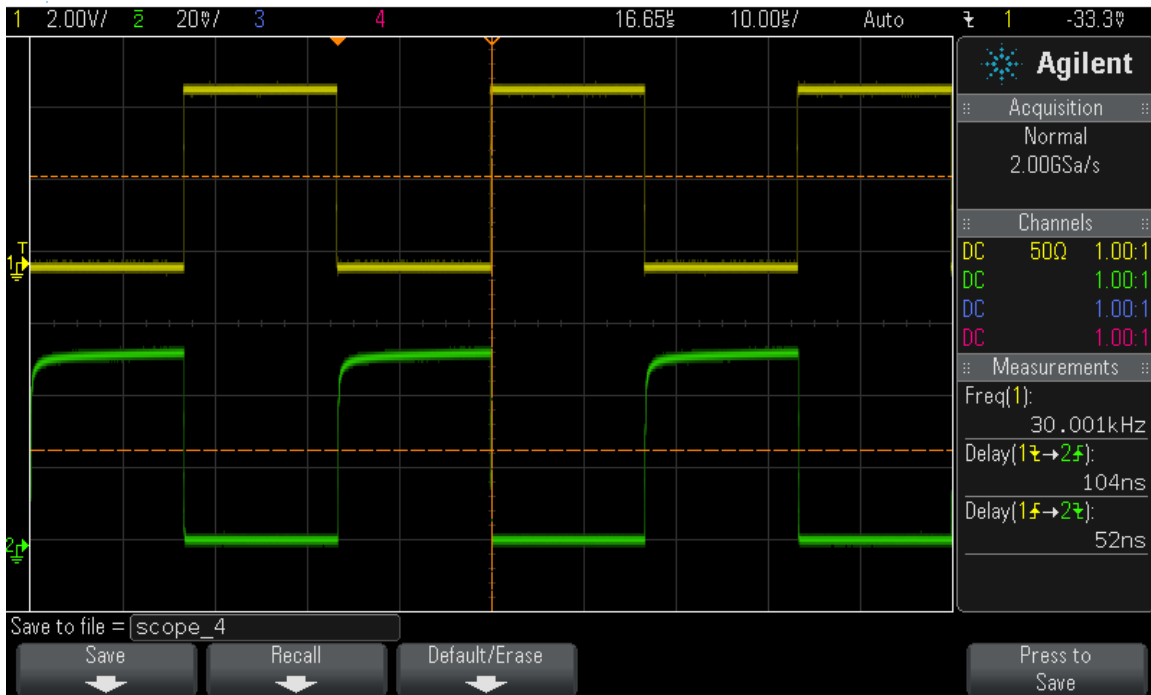
**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**Manual Override Blanking Switch
Full Pulse
PSD-2G6G-CD-2**



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Thu Apr 03 03:09:40 2014



CHANNEL 1 (YELLOW TRACE) MANUAL OVERRIDE TTL INPUT.

**CHANNEL 2 (GREEN TRACE) RF OUTPUT DEMONSTRATING WHEN
BLANKING SWITCH ACTIVATES.**



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

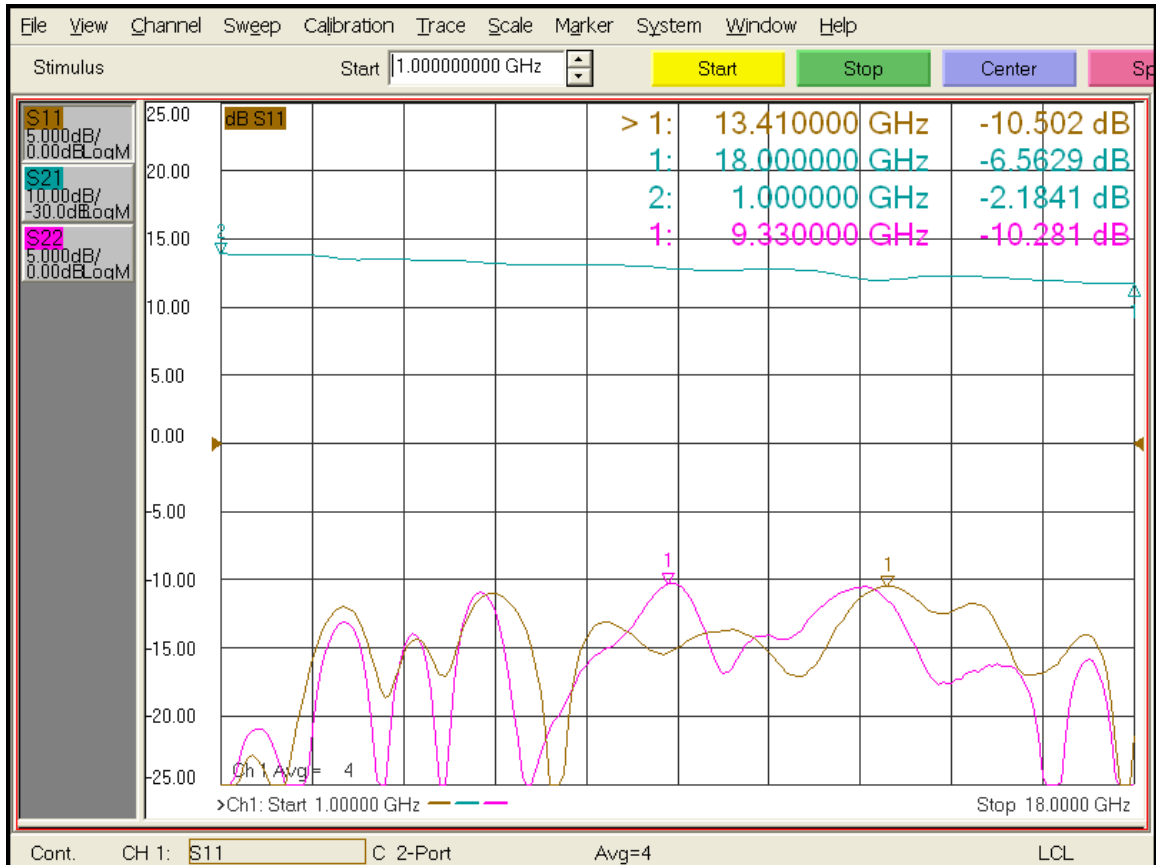
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	1.0 TO 18.0 GHz	1.0 TO 18.0 GHz	
2	Isolation:	85 dB Typ.	74.9 dB (See Plot)	
3	Insertion Loss:	4.0dB Max, 3.0dB Typ.	6.6 dB (See Plot)	
4	VSWR (In/Out):	2.0:1 Max.	1.93:1 (See Plot)	
5	Operating Input Power:	*10 Watts CW Max	Pass/Fail	
6	RF Switching Speed:	50 ns Max.	80 ns (See Plot)	
7	DC Voltage:	+5 V @ 30mA Typ.	99 mA	
8	Control Signal:	Logic Table		Pass
		CTL	J1 – J2	
		0	On	
		1	Off	

*Not to be switched any higher than 50 KHz (PRI)



TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

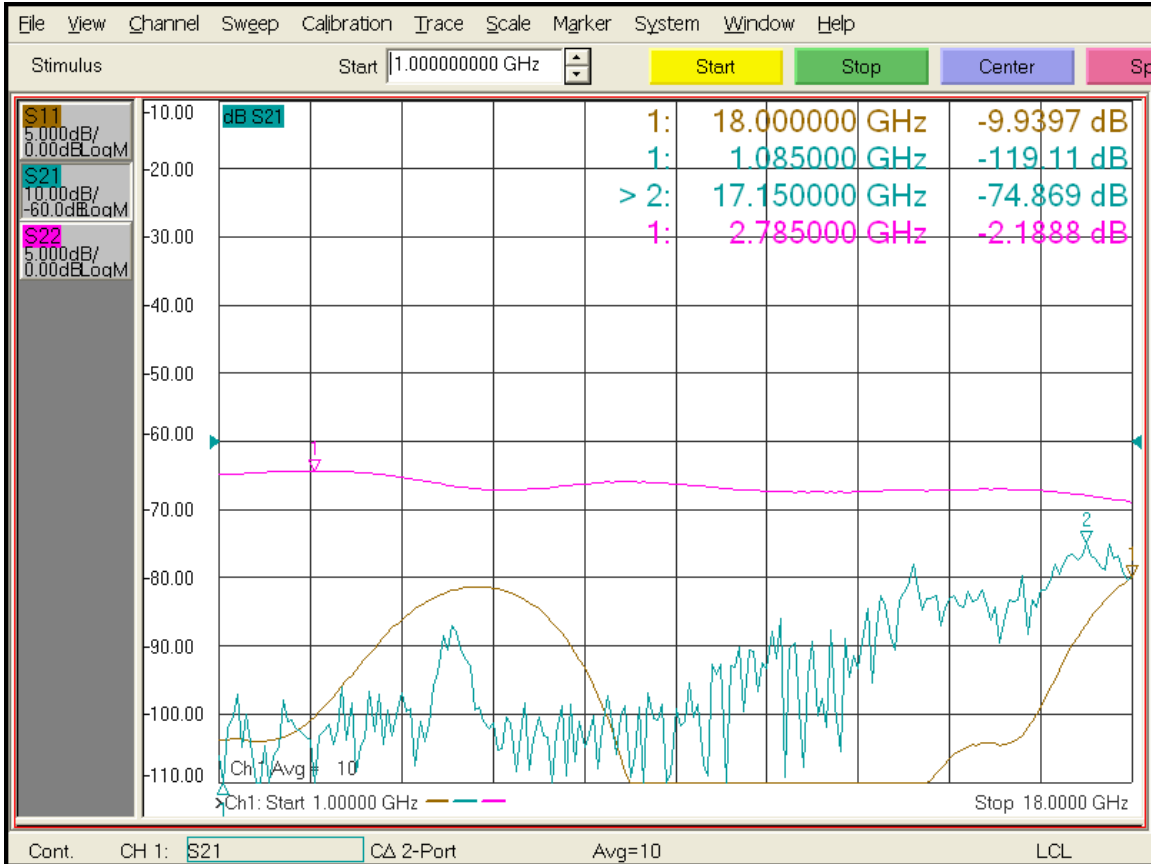
Insertion Loss and VSWR IN/OUT





TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

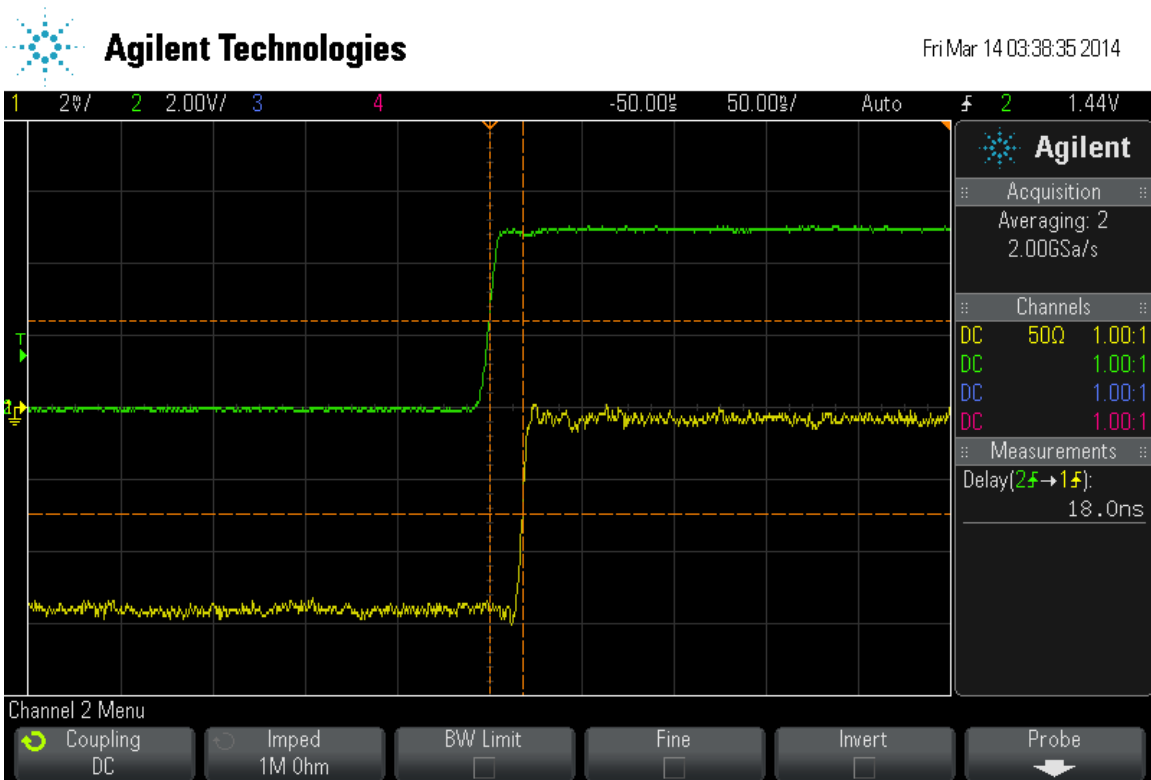
Isolation





**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

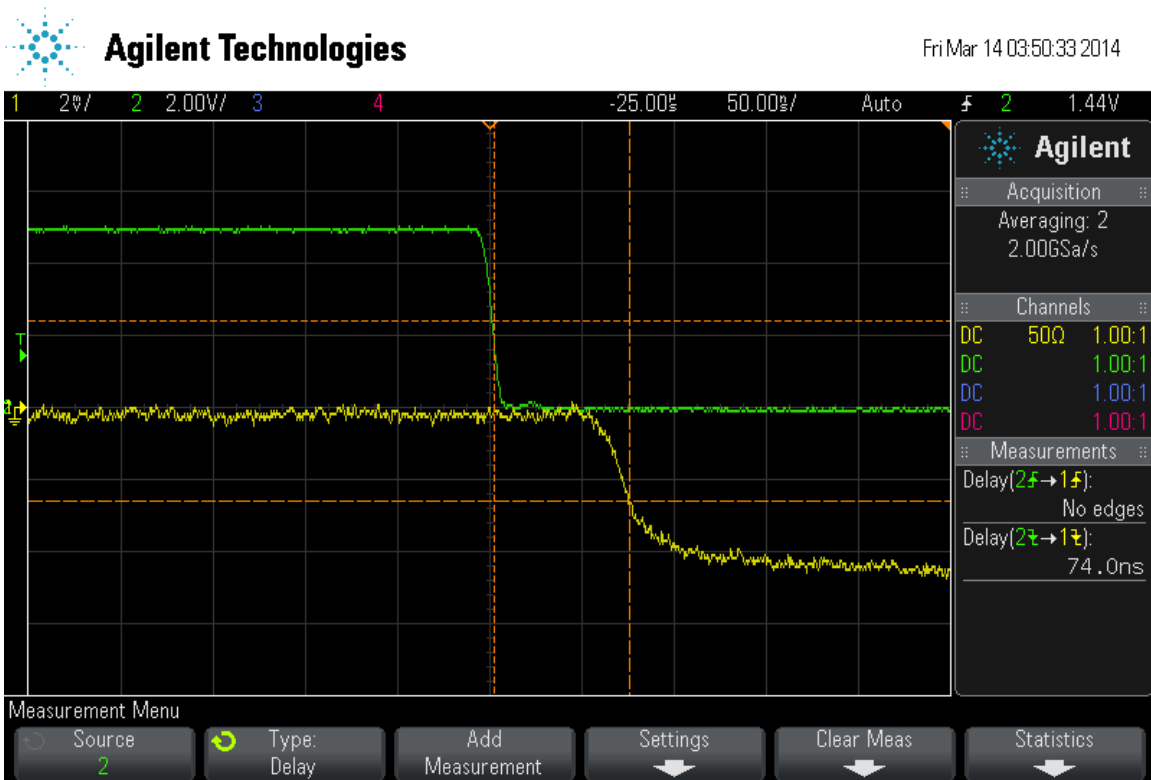
SWITCHING SPEED (TURN ON)





**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

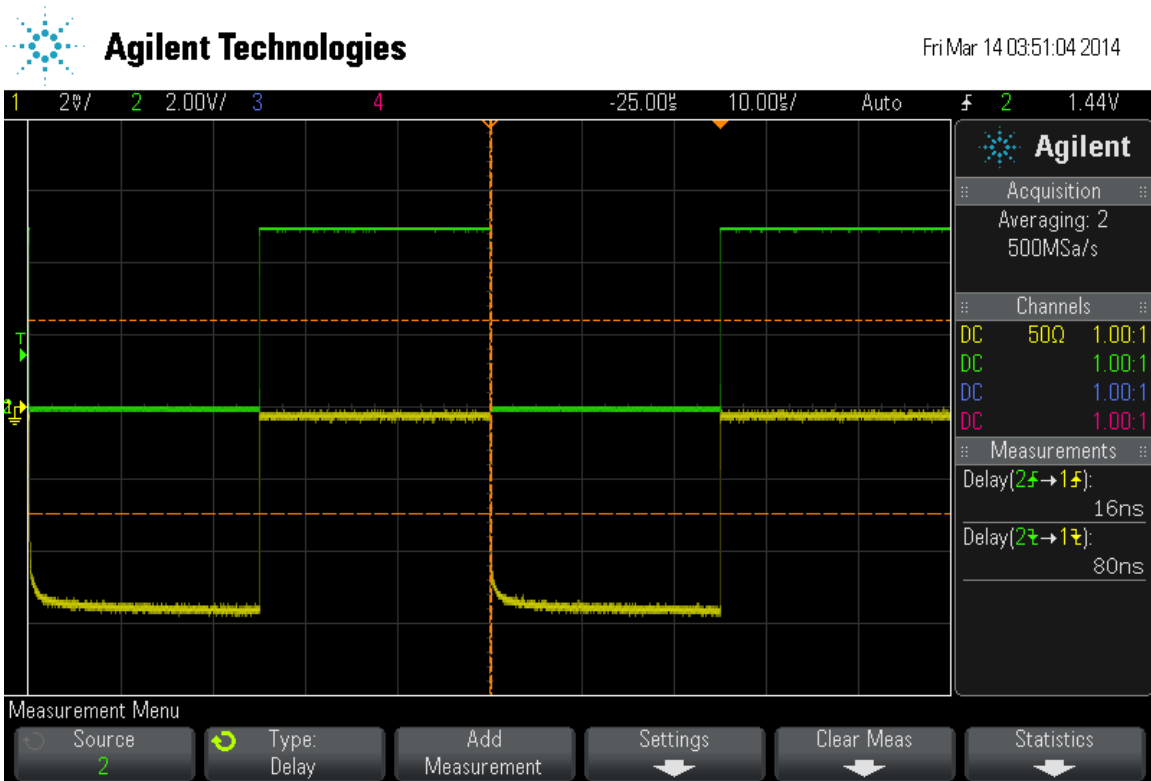
SWITCHING SPEED (TURN OFF)





**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

SWITCHING SPEED (FULL PULSE)





**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 GHz – 18 GHz	2 GHz – 18 GHz	
2	Minimum Signal Level for Response:	-45 dBm \pm 2.5dBm	Pass	
3	Propagation Delay from 50% Logic Output on leading edge for an Input of -45 dBm:	10 ns Typ 20 ns Max	Pass	
4	Propagation Delay from 50% RF Input to 50% Logic when Input -20 dBm:	10 ns Typ 20 ns Max	Pass	
5	DC Supply:	250mA @ +12VDC Max 120mA @ -12VDC Max	277mA 43mA	



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

PMI MODEL NUMBER DTA-2G18G-60-CD-2 IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 DB OVER THE FREQUENCY RANGE OF 2.0 TO 18 GHZ. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HIGH.



April 5, 2012
Designed by: Paul Kuhn
Drafted by: Simon Kuhn
Tested By: Kevin Mansfield /Paul Kuhn
Reported by: Kevin Mansfield



TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-2

DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-60-CD-2 IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 DB OVER THE FREQUENCY RANGE OF 2.0 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

SPECIFICATIONS:

- FREQUENCY: 2.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS: 4.5 dB MAX
- VSWR: 2.0 :1 MAX
- FLATNESS UP TO:
 - 20 dB ±1.0 dB TYP
 - 40 dB ±1.25 dB TYP
 - 60 dB ±3.0 dB TYP
- ACCURACY OF ATTENUATION:
 - 0 dB TO 20 dB ±1.0 dB TYP
 - 20 dB TO 40 dB ±1.5 dB TYP
 - 40 dB TO 60 dB ±2.0 dB TYP
- MINIMUM ATTENUATION STEP: 0.06 dB
- OPERATING POWER: 15 dBm TYP
- SURVIVAL POWER: 1W Average from -65°C to +25°C
- SWITCHING TIME:
 - ON TIME 1.0 us MAX
 - OFF TIME 0.5 us MAX
- DC POWER SUPPLY: +15V @ 150 mA MAX
- CONNECTORS: 2 SMA & 15 PIN Micro-D-Female
Shipped with Mating Micro-D Male
- WEIGHT: 3.0 oz (85 gm) Approximate
- FINISH: PAINTED GRAY
- LOGIC INPUT:
 - LOGIC *P (BIT OFF) -0.3 to +0.8V
 - LOGIC *+ (BIT ON) +2.0 to +9.0V

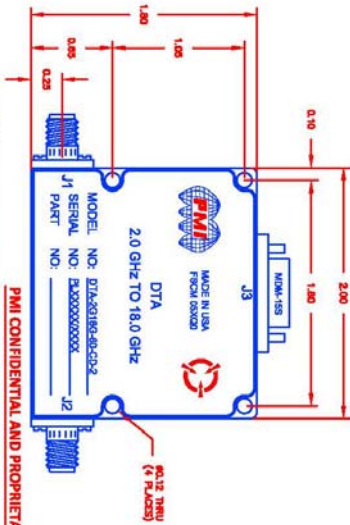
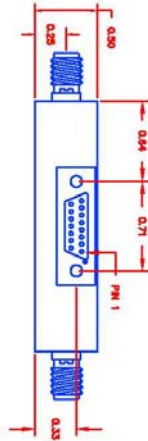
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°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 106C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO.	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB
4	0.25dB
5	GND
6	0.13 dB
7	0.06 dB (LSB)
8	GND
9	Not Used
10	Not Used
11	1.2VDC
12	3.2dB (MSB)
13	16dB
14	48dB
15	4dB

REV	DESCRIPTION	DATE	APPROVED
A1	ORIGINAL RELEASE	12/28/11	JJK
A2	ECN # 13-0131	8/28/13	



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 ISO 9001 CERTIFIED



APPROVAL	DATE	TITLE	SIZE	FRAC NO.	QTY	REV
JJK	12/28/11	PRODUCT FEATURE	A	05X00	27016021	A2
ISSUED			SCALE	NIS		SHEET 1 OF 1

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES UNLESS NOTED
 XXXX.XX
 XXXX.XX



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2
@ +25°C

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS/FAIL	QA QC
1	Frequency Range:	2 GHz – 18 GHz	2 GHz – 18 GHz	
2	Insertion Loss:	4.5 dB Max.	4.38 dB	
3	VSWR:	2.0 : 1 Max.	1.59:1	
4	Flatness @ 10dB:	± 1.0 dB	± 0.18 dB	
5	Flatness @ 20dB:	± 1.0 dB	± 0.43 dB	
6	Flatness @ 40dB:	± 1.25 dB	± 0.86 dB	
7	Flatness @ 60dB:	± 3.0 dB	± 2.08 dB	
8	Accuracy of Attenuation 0 to 20 dB:	± 1.0 dB	± 0.21 dB	
9	Accuracy of Attenuation 20 to 40 dB:	± 1.5 dB	± 0.09 dB	
10	Accuracy of Attenuation 40 to 60 dB:	± 2.0 dB	± 0.33 dB	
11	Switching Speed:	1.0 uSEC MAX	0.7 uSEC	
12	DC Supply:	+12VDC @ 155 mA	+12 VDC @ 136 mA	

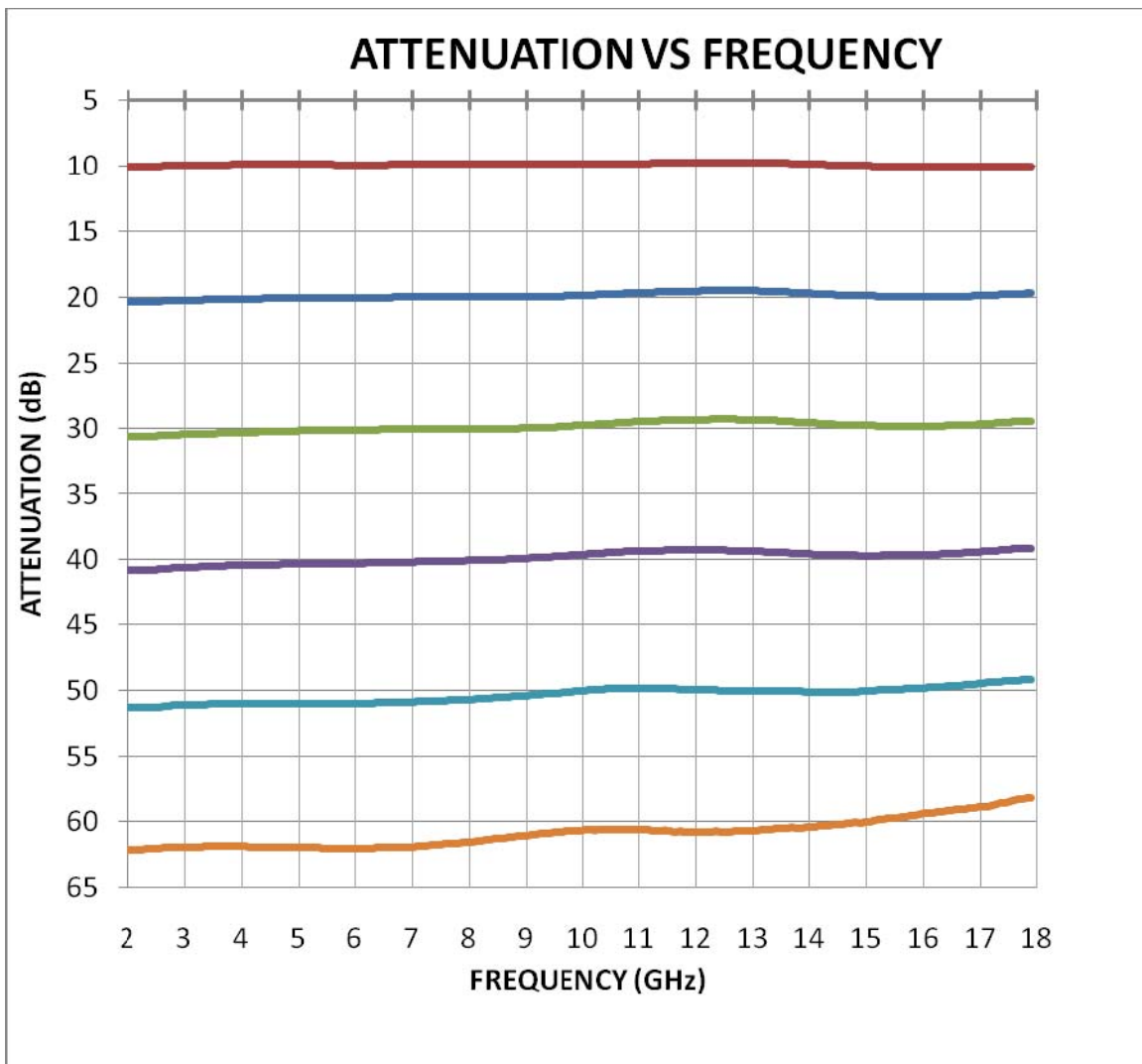
Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness
dB	dB	dB	dB
0.25	0.24	0.01	±0.06
0.50	0.45	0.05	0.08
1.00	0.86	0.14	0.09
2.00	1.80	0.20	0.09
4.00	3.86	0.14	0.10
8.00	7.87	0.13	0.16
16.00	15.81	0.19	0.31
32.00	31.95	0.05	0.68
63.75	63.86		

Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness
dB	dB	dB	dB
5.00	4.83	0.17	0.12
10.00	9.90	0.10	0.18
15.00	14.86	0.14	0.28
20.00	19.91	0.09	0.43
25.00	24.95	0.05	0.56
30.00	30.00	0.00	0.66
35.00	34.95	0.05	0.72
40.00	39.93	0.07	0.86
45.00	44.91	0.09	1.01
50.00	50.23	-0.23	1.15
55.00	54.94	0.06	1.44
60.00	60.15	-0.15	2.08



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2
@ 25°C

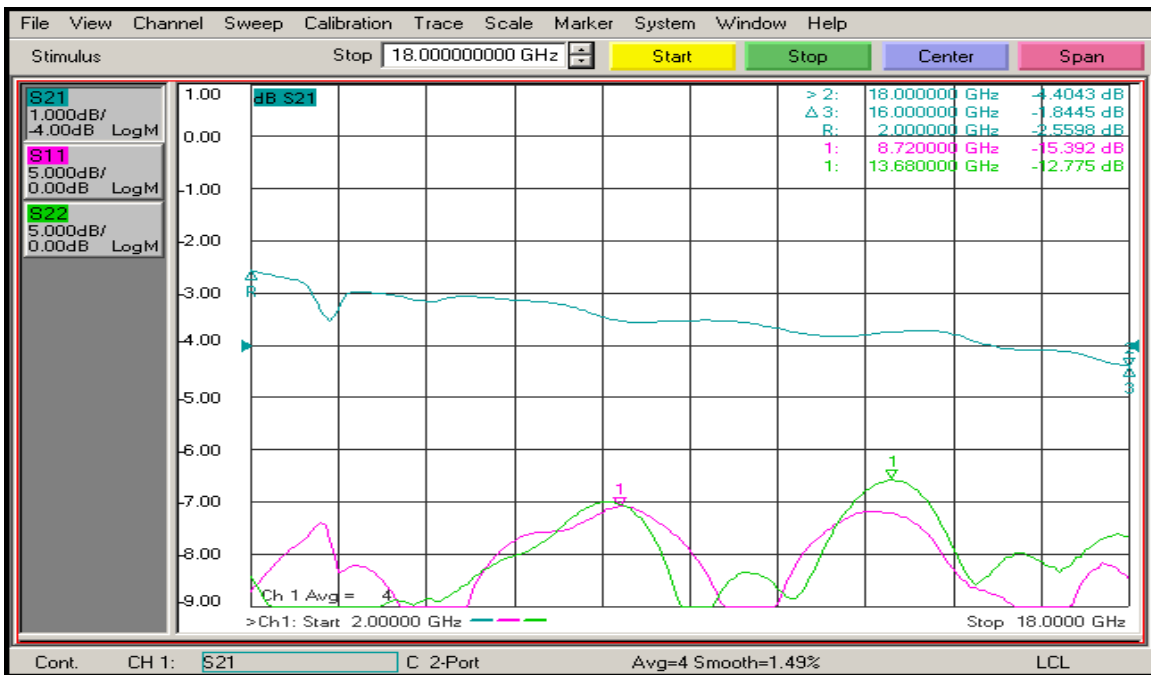




**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**SWEPT TEST DATA ON DTA-2G18G-60-CD-2
@ 25°C**

**Insertion Loss and VSWR
+25°C @ 0dB Attenuation**

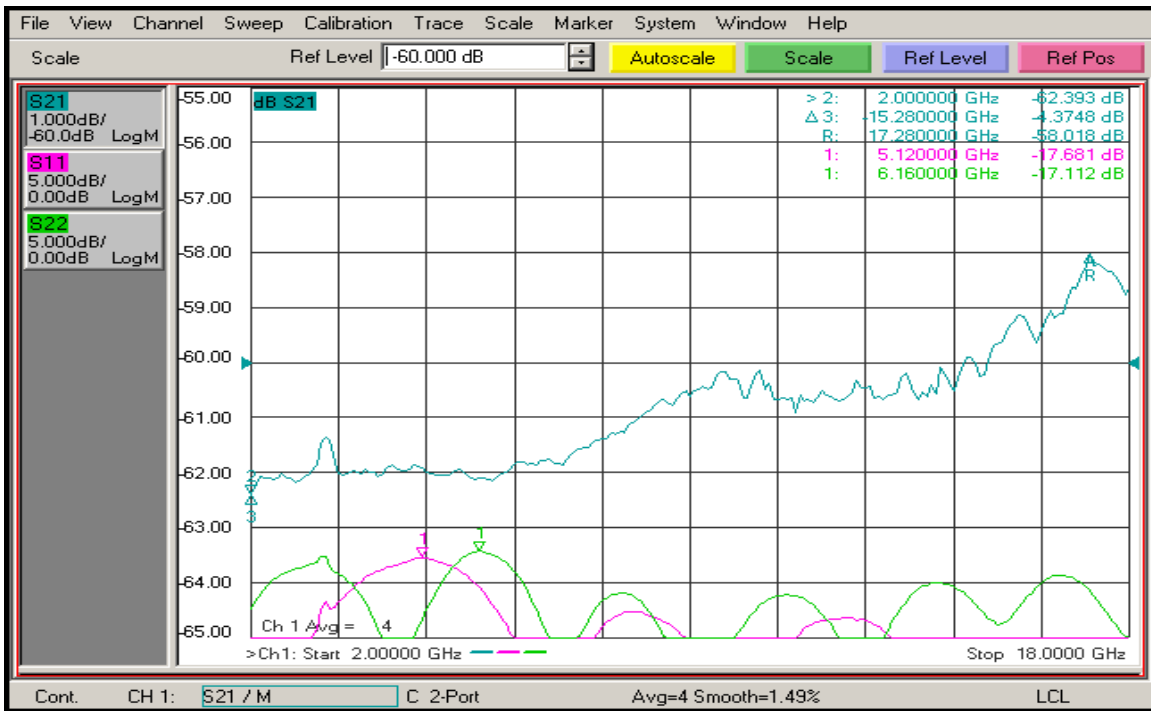




**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**SWEPT TEST DATA ON DTA-2G18G-60-CD-2
@ 25°C**

+25°C 60dB Attenuation





**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2
@ 40°C

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS/FAIL	QA QC
1	Frequency Range:	2 GHz – 18 GHz	2 GHz – 18 GHz	
2	Insertion Loss:	4.5 dB Max.	4.37 dB	
3	VSWR:	2.0 : 1 Max.	1.50 :1	
4	Flatness @ 10dB:	± 1.0 dB	± 0.22 dB	
5	Flatness @ 20dB:	± 1.0 dB	± 0.93 dB	
6	Flatness @ 40dB:	± 1.25 dB	± 2.64 dB	
7	Flatness @ 60dB:	± 3.0 dB	± 4.2 dB	
8	Accuracy of Attenuation 0 to 20 dB:	± 1.0 dB	± 0.81 dB	
9	Accuracy of Attenuation 20 to 40 dB:	± 1.5 dB	± 0.69 dB	
10	Accuracy of Attenuation 40 to 60 dB:	± 2.0 dB	± 1.58 dB	
11	Switching Speed:	1.0 uSEC MAX	0.7 uSEC	
12	DC Supply:	+12VDC @ 155 mA	+12 VDC @ 132 mA	

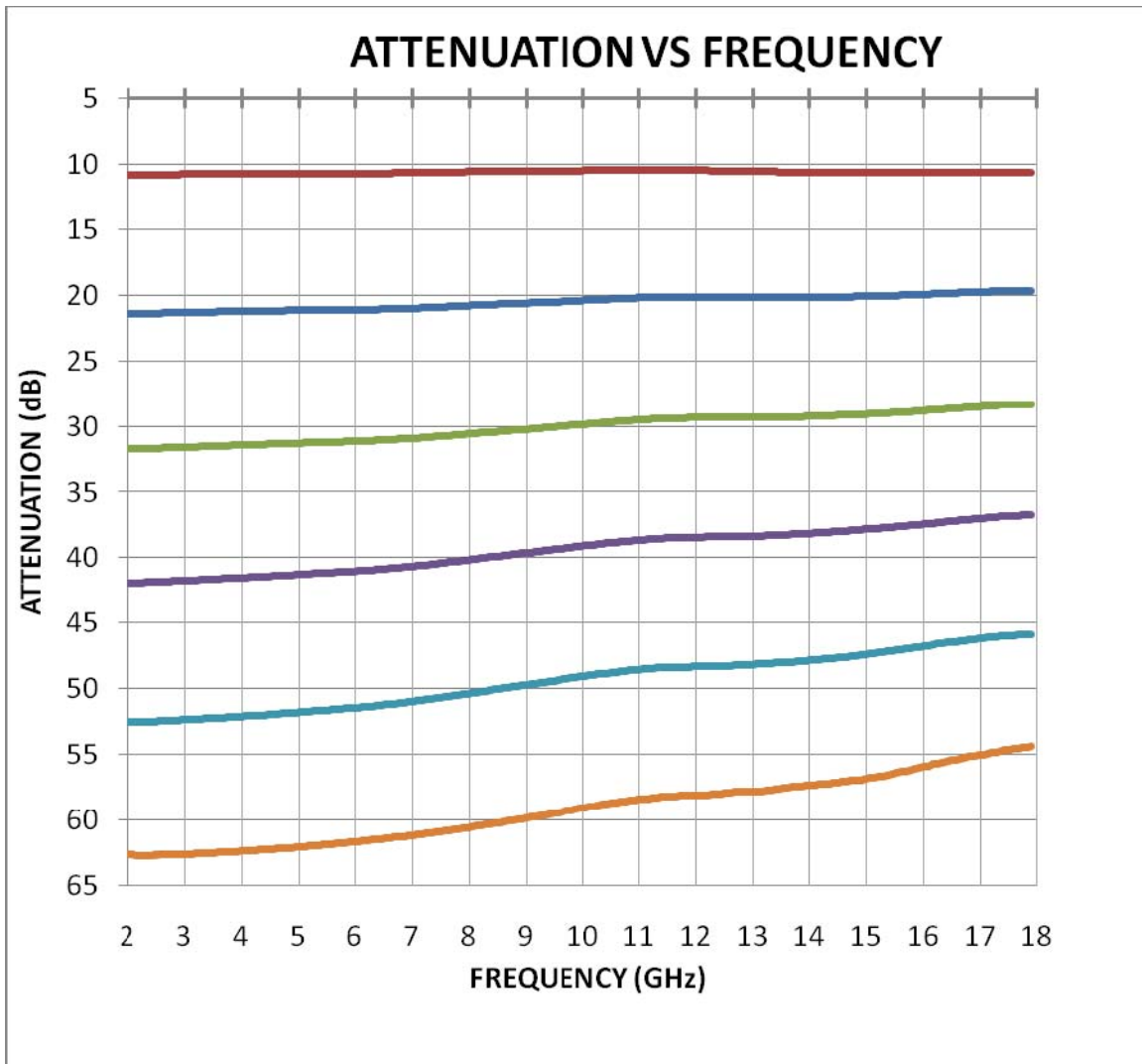
Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness dB
dB	dB	dB	±dB
0.25	0.32	-0.07	0.09
0.50	0.57	-0.07	0.12
1.00	1.05	-0.05	0.14
2.00	2.08	-0.08	0.16
4.00	4.28	-0.28	0.15
8.00	8.48	-0.48	0.18
16.00	16.60	-0.60	0.58
32.00	31.83	0.17	1.95
63.75	62.08		

Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness dB
dB	dB	dB	±dB
5.00	5.30	-0.30	0.16
10.00	10.62	-0.62	0.22
15.00	15.66	-0.66	0.50
20.00	20.51	-0.51	0.93
25.00	25.25	-0.25	1.36
30.00	30.01	-0.01	1.77
35.00	34.67	0.33	2.19
40.00	39.31	0.69	2.64
45.00	44.04	0.96	3.10
50.00	49.19	0.81	3.38
55.00	53.79	1.21	3.72
60.00	58.54	1.46	4.20



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**TEST DATA ON DTA-2G18G-60-CD-2
@ 40°C**

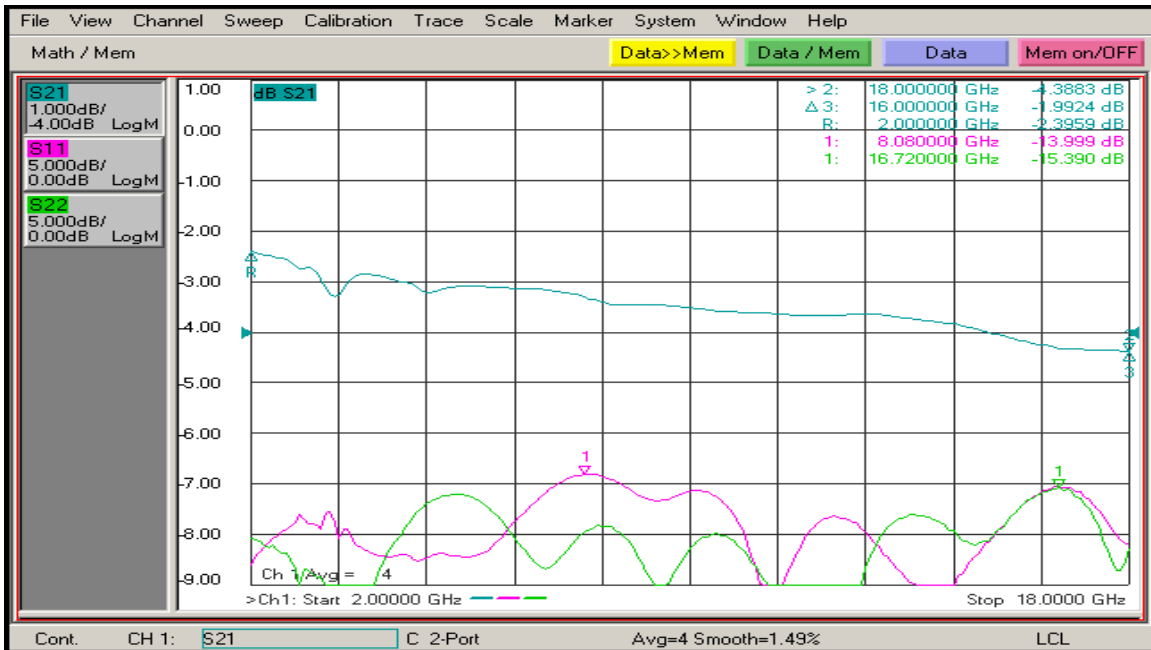




**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**TEST DATA ON DTA-2G18G-60-CD-2
@ 40°C**

**Insertion Loss and VSWR
-40°C @ 0dB Attenuation**

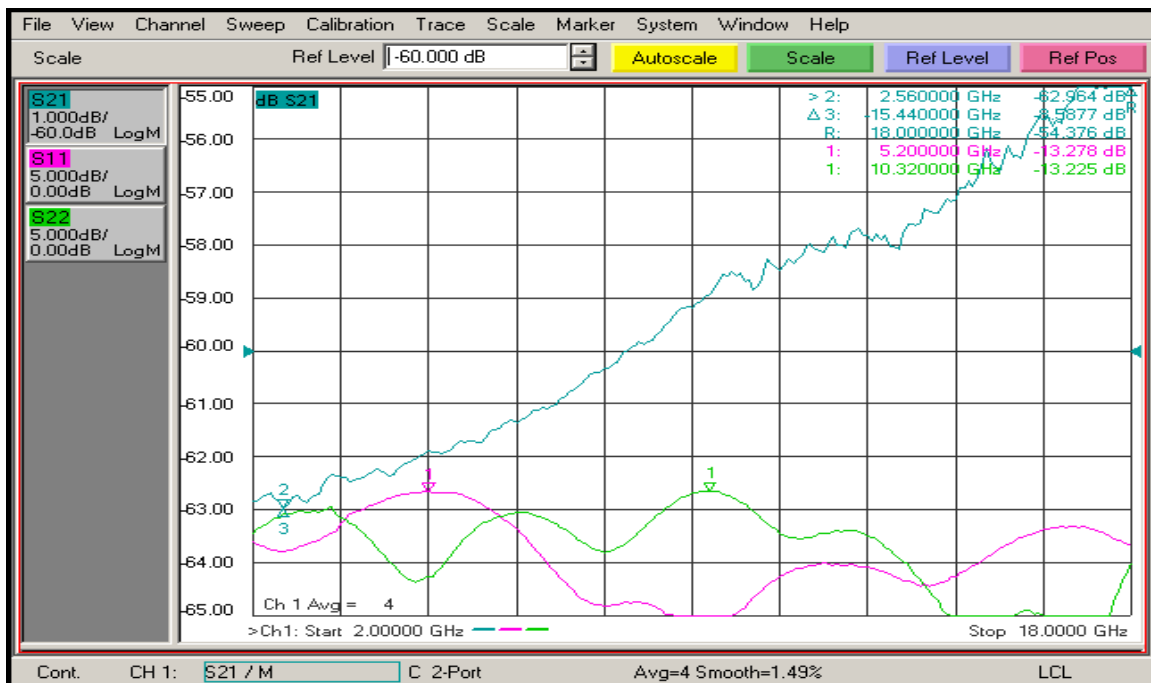




**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**TEST DATA ON DTA-2G18G-60-CD-2
@ 40°C**

-40°C 60dB Attenuation





**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2
@ +85°C

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS/FAIL	QA QC
1	Frequency Range:	2 GHz – 18 GHz	2 GHz – 18 GHz	
2	Insertion Loss:	4.5 dB Max.	4.5 dB	
3	VSWR:	2.0 : 1 Max.	1.51:1	
4	Flatness @ 10dB:	± 1.0 dB	± 0.29 dB	
5	Flatness @ 20dB:	± 1.0 dB	± 0.44 dB	
6	Flatness @ 40dB:	± 1.25 dB	± 0.43 dB	
7	Flatness @ 60dB:	± 3.0 dB	± 1.38 dB	
8	Accuracy of Attenuation 0 to 20 dB:	± 1.0 dB	± 0.31 dB	
9	Accuracy of Attenuation 20 to 40 dB:	± 1.5 dB	± 0.83 dB	
10	Accuracy of Attenuation 40 to 60 dB:	± 2.0 dB	± 1.86 dB	
11	Switching Speed:	1.0 uSEC MAX	0.7 uSEC	
12	DC Supply:	+12VDC @ 155 mA	+12 VDC @ 134 mA	

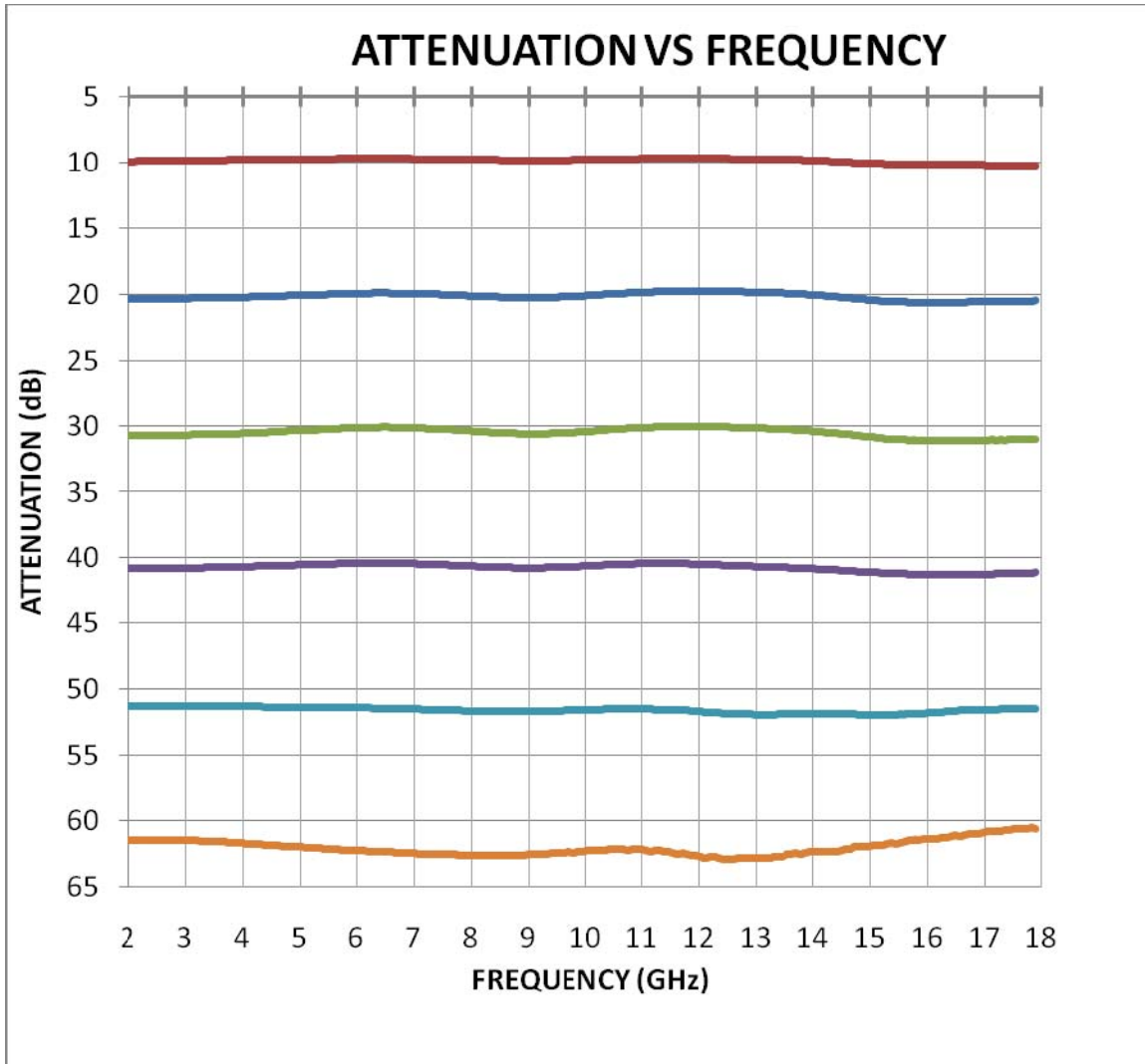
Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness dB
dB	dB	dB	±dB
0.25	0.19	0.06	0.05
0.50	0.38	0.12	0.06
1.00	0.78	0.22	0.07
2.00	1.69	0.31	0.08
4.00	3.82	0.18	0.18
8.00	7.87	0.13	0.27
16.00	15.98	0.02	0.36
32.00	32.61	-0.61	0.51
63.75	64.90		

Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness dB
dB	dB	dB	±dB
5.00	4.79	0.21	0.21
10.00	9.96	0.04	0.29
15.00	15.00	0.00	0.35
20.00	20.19	-0.19	0.44
25.00	25.36	-0.36	0.51
30.00	30.61	-0.61	0.54
35.00	35.74	-0.74	0.50
40.00	40.83	-0.83	0.43
45.00	46.01	-1.01	0.33
50.00	51.60	-1.60	0.35
55.00	56.58	-1.58	0.79
60.00	61.74	-1.74	1.38



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2
@ +85°C

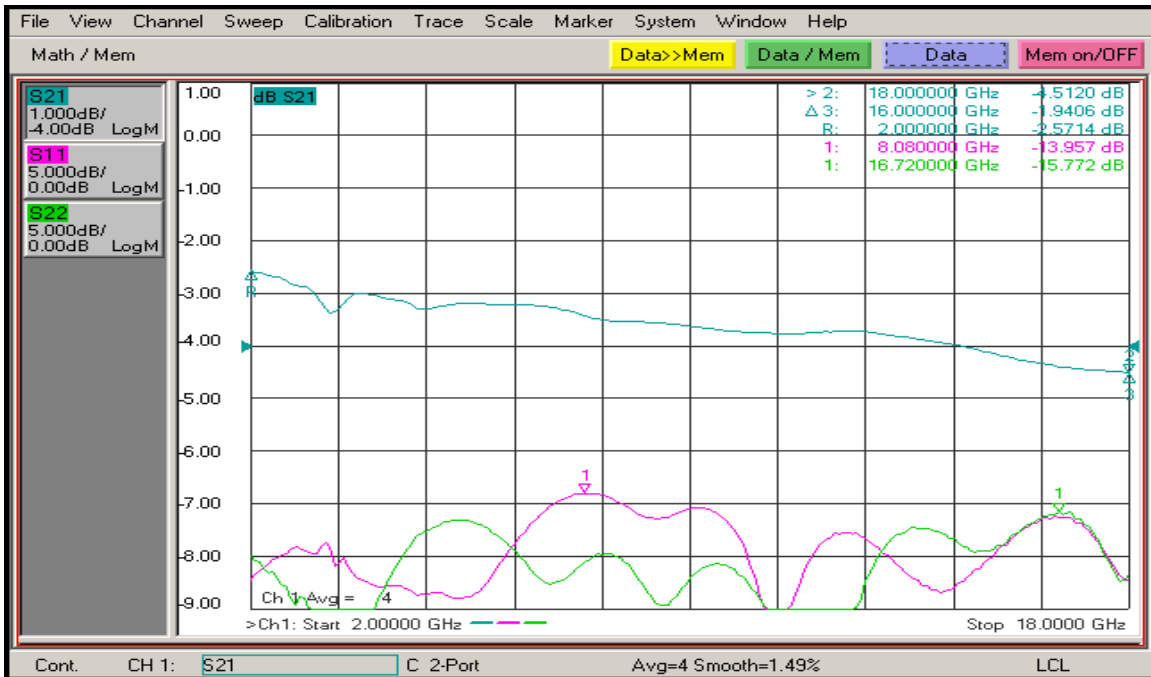




**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**TEST DATA ON DTA-2G18G-60-CD-2
@ +85°C**

**Insertion Loss and VSWR
+85°C @ 0dB Attenuation**

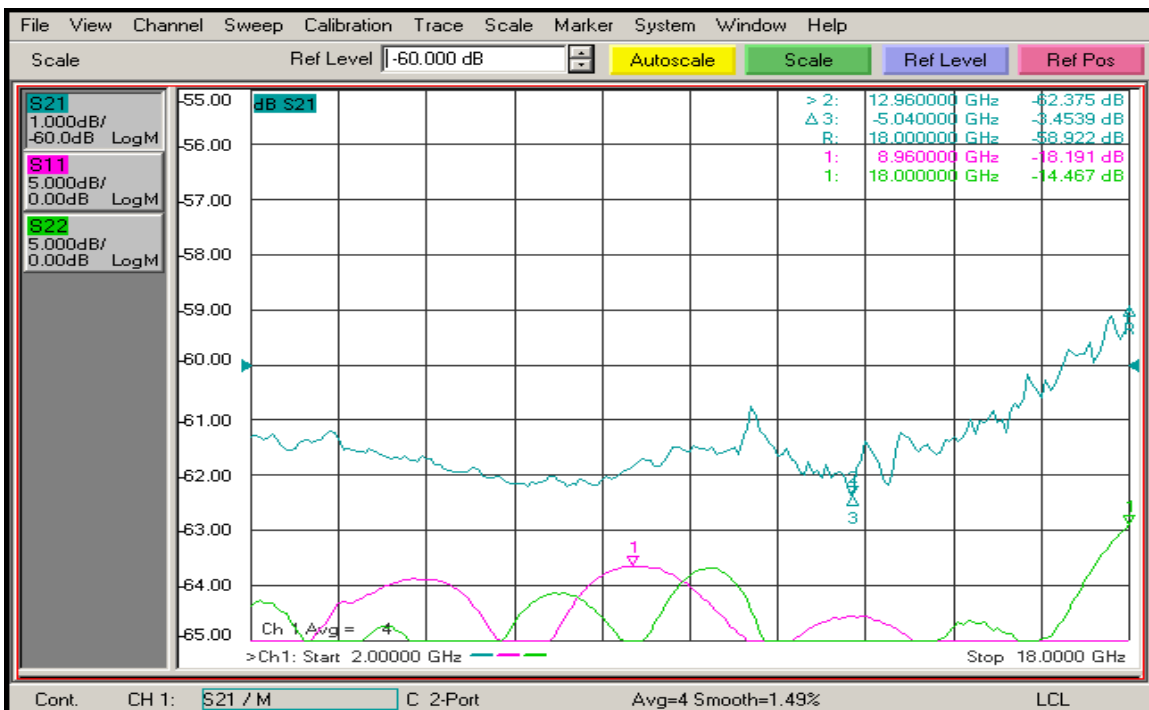




**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

**TEST DATA ON DTA-2G18G-60-CD-2
@ +85°C**

+85°C 60dB Attenuation





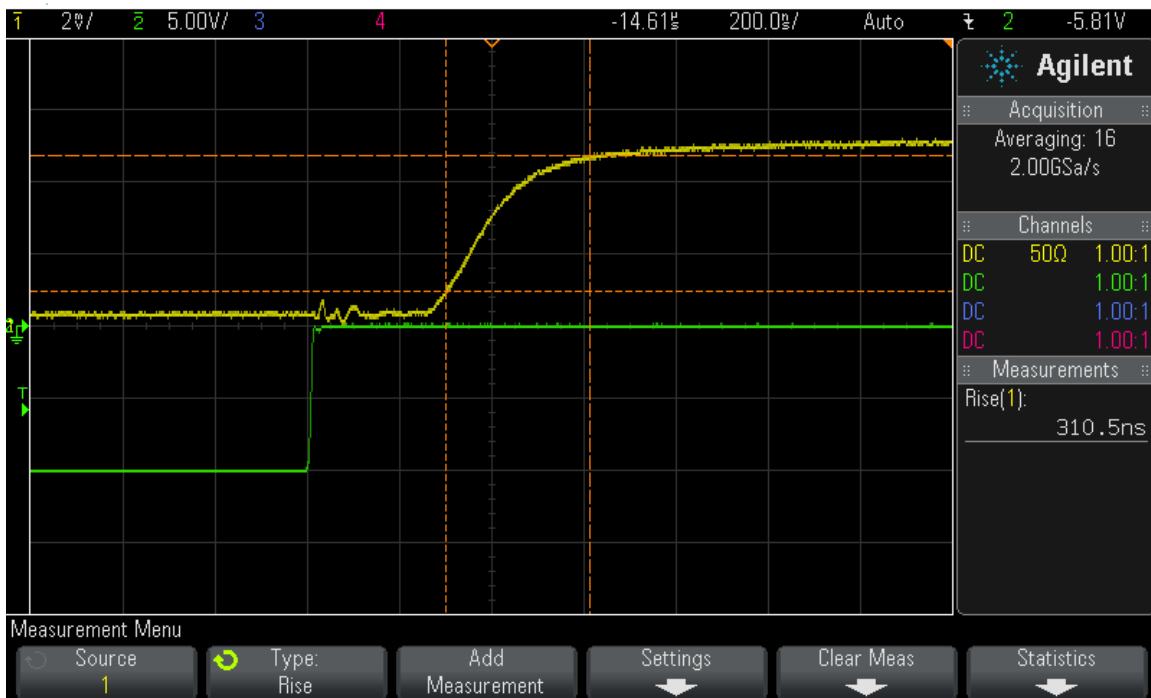
**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2

**Delay On
Measured with a Tunnel Diode @ 10GHz
Power Level +5dBm**



Thu Apr 05 23:27:06 2012



Channel 1 (Yellow): Tunnel Diode output

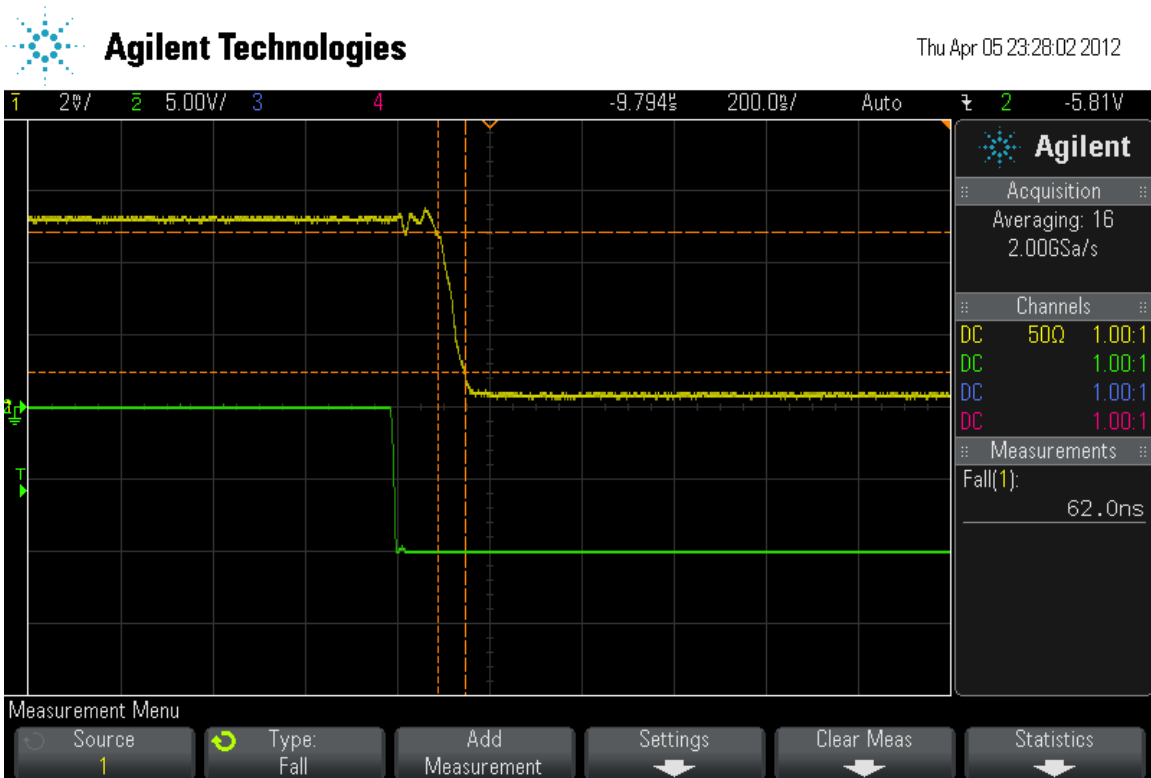
Channel 2 (Green): TTL Input from Signal Generator



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-2**

TEST DATA ON DTA-2G18G-60-CD-2

**Delay Off
Measured with a Tunnel Diode @ 10GHz
Power Level +5dBm**



Channel 1 (Yellow): Tunnel Diode output

Channel 2 (Green): TTL Input from Signal Generator