



**TYPICAL CHARACTERISTICS
ON
PSD-2G6G-CD-1**

PL12928/1314

**PMI MODEL PSD-2G6G-CD-1 IS AN INTEGRATED AMPLIFIER SWITCH BOX
WITH VARIABLE LIMIT HIGH POWER, HIGH SPEED, LONG LIFETIME
DYNAMIC RANGE LIMITER.**



**DESIGNED BY:
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**TESTED & REPORTED BY:
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April 9, 2013

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TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-1

PL-12928/1314

DESCRIPTION

PMI MODEL PSD-2G6G-CD-1 IS A INTEGRATED AMPLIFIER SWITCH BOX ASSEMBLY WITH THE FOLLOWING SPECIFICATIONS

SPECIFICATIONS

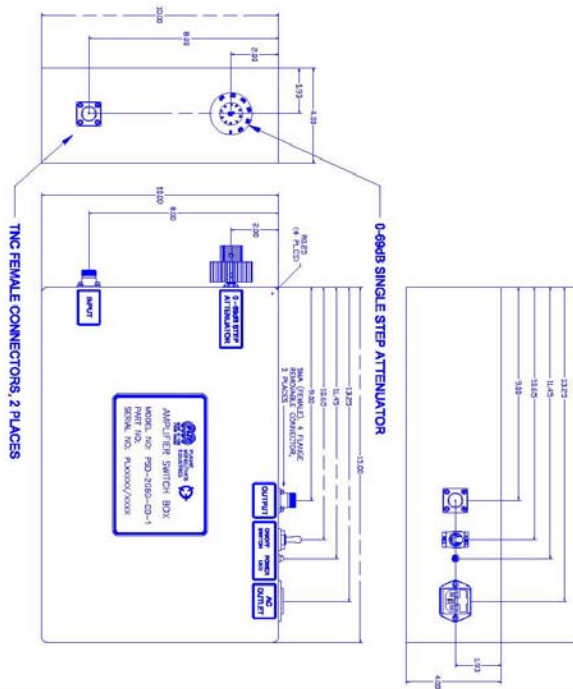
- FINAL ASSEMBLY:
- FREQUENCY RESPONSE: 2.0 - 6.0 GHz
- POWER: 110WAC ONLY, 50/60Hz
- SIZE: (L) 15.0" X (W) 10.0" X (H) 4.0"
- FINISH: PAINTED GRAY
- WEIGHT: 20 POUNDS(LBS) TYP
- PIN DIODE SWITCH:
 - POWER HANDLING: \geq 10 W
 - FREQUENCY RESPONSE: 2.0 - 6.0 GHz
 - SWITCHING SPEED: $<$ 50 ns
- THRESHOLD 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
- COUPLER:
 - POWER HANDLING: \geq 10 W
 - FREQUENCY RESPONSE: 2.0 - 6.0 GHz
 - COUPLING FACTOR: 20 dB
- 50 Ohm LOAD:
 - POWER HANDLING: \geq 10 W
 - FREQUENCY RESPONSE: 2.0 - 6.0 GHz
- ATTENUATOR:
 - POWER HANDLING: $>$ 2 W
 - FREQUENCY RESPONSE: 2.0 - 6.0 GHz
 - ATTENUATION: 0 - 69 Db (1) Front Panel Knob or Thumb Wheel

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)
 - HUMIDITY: MIL-STD-202F METHOD 1038 COND. B
 - SHOCK: MIL-STD-202F METHOD 2138 COND. B
 - VIBRATION: MIL-STD-202F METHOD 2049 COND. B
 - ALTITUDE: MIL-STD-202F METHOD 1035 COND. B
 - TEMPERATURE CYCLE: MIL-STD-202F METHOD 1070 COND. A
- NOTE: SPECIFICATIONS VARY WITH OPERATING TEMPERATURE
REFER THE ABOVE SPECIFICATIONS AND SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	03/12/13	
A2		SEE FCN # 13-0006	03/02/13	

MECHANICAL OUTLINE



ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX .010
X.XXX .005

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
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ISO 9001:2000 CERTIFIED



APPROVALS	DATE	TITLE
DESIGNED	03/12/13	PRODUCT FEATURE
CHECKED		PSD-2G6G-CD-1
ISSUED		

SCALE: N:1.5	SHEET: 1 OF 2
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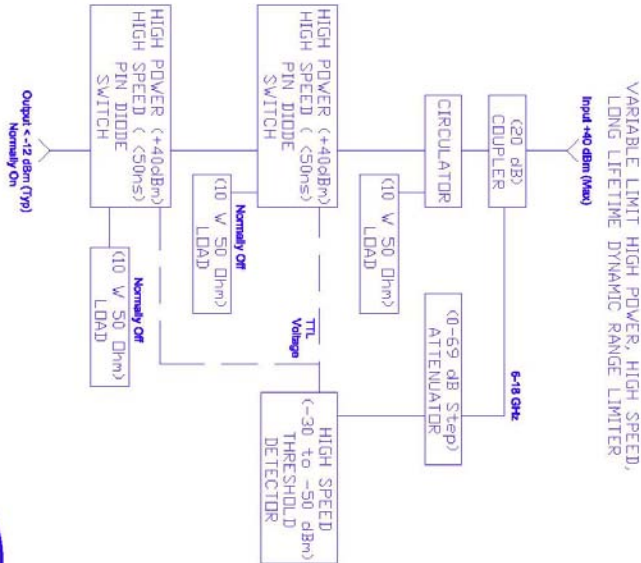


TYPICAL CHARACTERISTICS ON PSD-2G6G-CD-1

PL12928/1314

DESCRIPTION
PMI MODEL PSD-6G16G-CD-1 IS A INTEGRATED AMPLIFIER SWITCH BOX ASSEMBLY WITH THE FOLLOWING SPECIFICATIONS

BLOCK DIAGRAM



REV.		DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	02/12/18	
A2		SEE ECN # 13-0006	03/12/18	

- ENVIRONMENTAL RATINGS**
- TEMPERATURE: -35°C TO +85°C (OPERATING)
-40°C TO +85°C (STORAGE)
 - HUMIDITY: MIL-STD-202F, METHOD 1038 COND. B
 - SHOCK: MIL-STD-202F, METHOD 2138 COND. B
 - VIBRATION: MIL-STD-202F, METHOD 2048 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 without notice.

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX .015

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DATE	APPROVALS	TITLE	SIZE	FORM NO.	QWC NO.	REV.
02/12/18	ALG	BLOCK DIAGRAM	A	05X00	27017741	A2
		PSD-2G6G-CD-1				

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ON
PSD-2G6G-CD-1**

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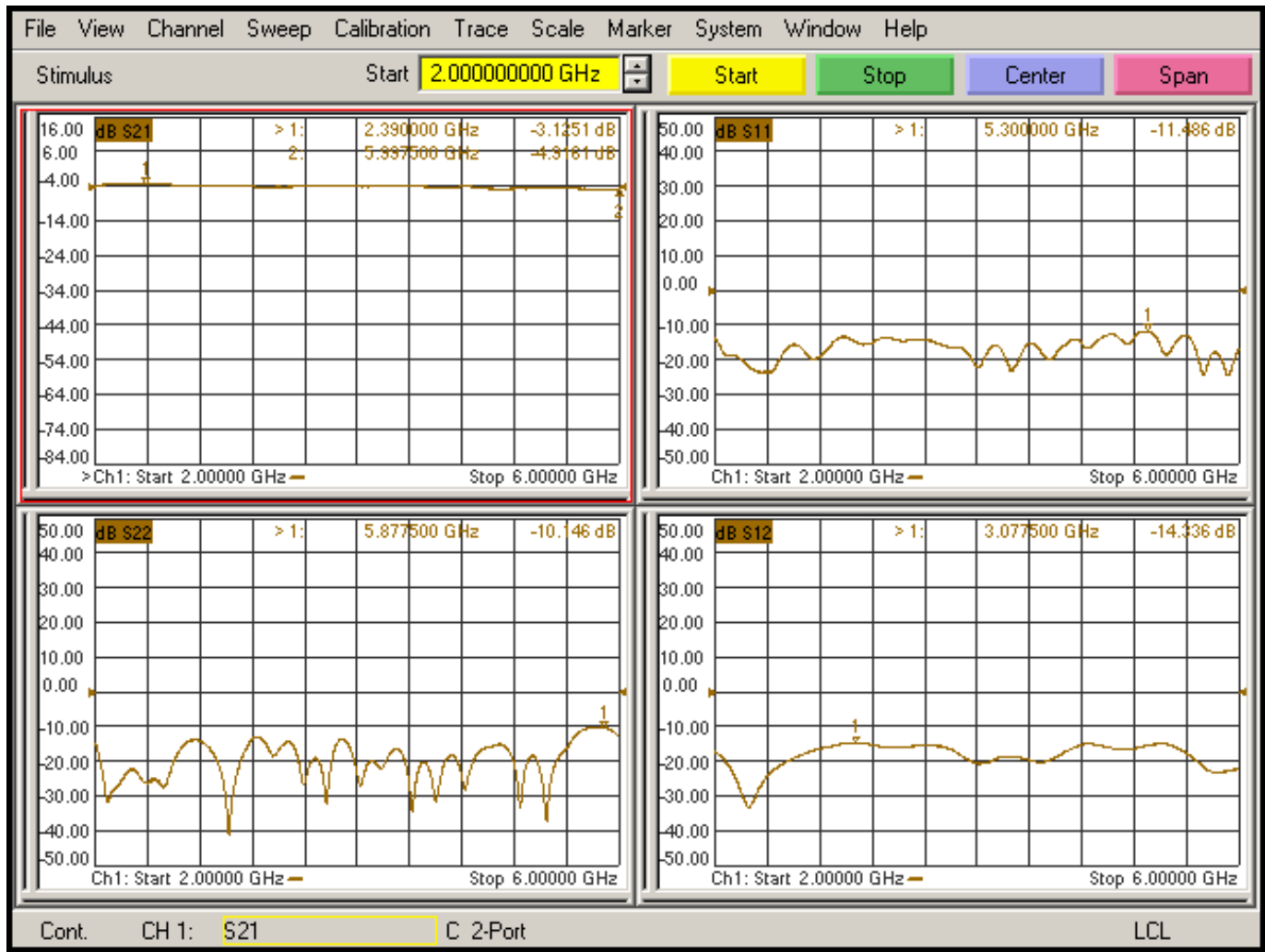
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1.0	Final Assembly			
1.1	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
1.2	Power:	110 VAC ONLY 50/60Hz	Pass	
2.0	Pin Diode Switch			
2.1	Power Handling:	≥ 10 W	Pass	
2.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
2.3	Switching Speed:	< 50 ns	30ns	
3.0	Threshold Detector			
3.1	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
3.2	Switching Speed:	< 50 ns	12.5ns	
3.3	Output Type:	TTL (Compatible With Pin Switch)	Pass	
3.4	Sensitivity:	< -40 dBm	-40dBm	
3.5	Max Power No Damage:	10dBm	Pass	
4.0	Coupler			
4.1	Power Handling:	≥ 10 W	Pass	
4.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
4.3	Coupling Factor:	20 dB	Pass	
5.0	50 Ohm Loads			
5.1	Power Handling:	≥ 10 W	Pass	
5.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	
6.0	Attenuator			
6.1	Power Handling:	> 2 W	Pass	
6.2	Frequency Response:	2.0 – 6.0 GHz	2.0 – 6.0 GHz	



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S-Parameter Performance

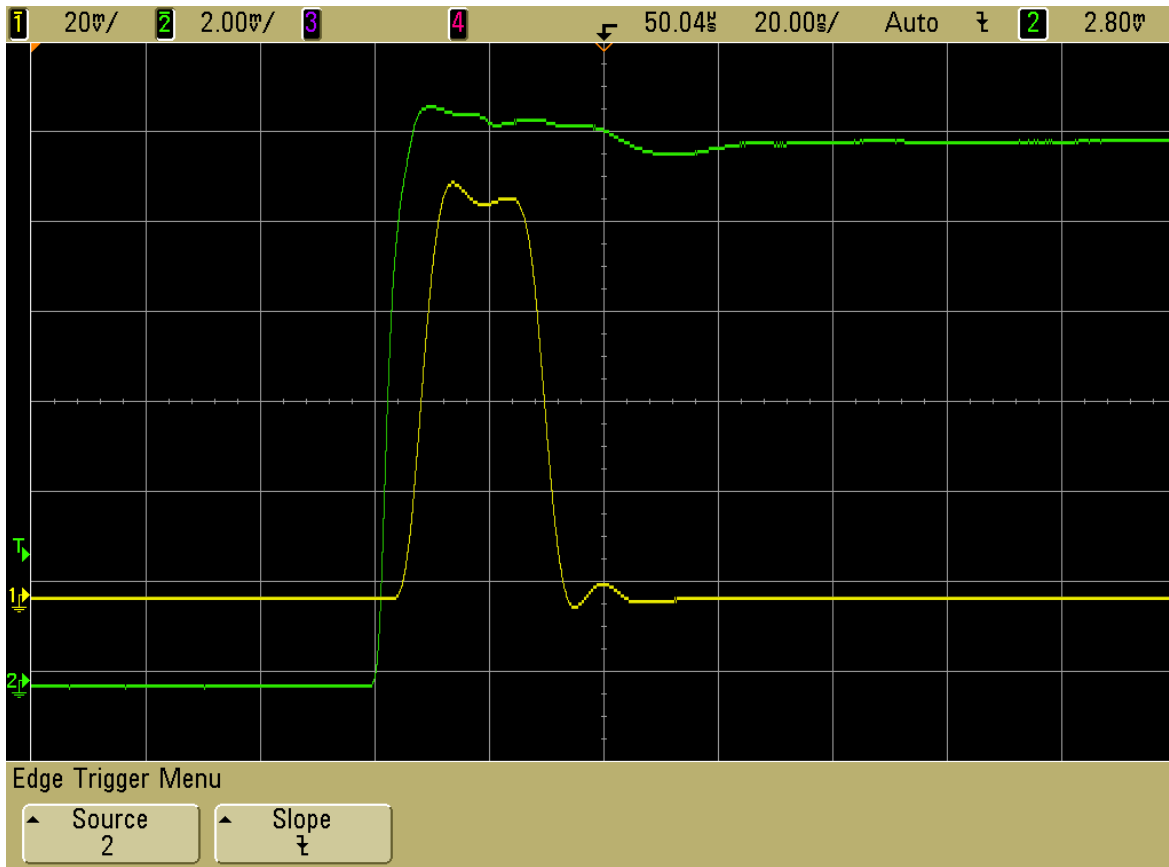




**TYPICAL CHARACTERISTICS
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RF Input vs. RF Output



Channel 1 (Green): RF Input signal.
Channel 2 (Yellow): RF Output signal