PSS1R5-5-*

SPECIFICATIONS

C180-01-01B

	MODEL ITEMS			PSS1R5-5-3R3	PSS1R5-5-5	PSS1R5-5-12
1	Nominal Output Voltage		V	3.3	5	12 (15)
2	Maximum Output Current		A	0.4	0.3	0.13 (0.1)
3	Maximum Output Power		W	1.32	1.5	1.56
4	Efficiency (Typ.)	(*1)	%	73	78	81
5	Input Voltage Range		-	4.5 ~ 9.0VDC		
6	Input Current (Typ.)	(*1)	A	0.37	0.39	0.39
7	Output Voltage Accuracy	(*1)	%	±5		
8	Output Voltage Range (Typ.)		V	2.84 ~ 3.67	4.3 ~ 6.0	12 ~ 15
9	Maximum Ripple & Noise	(*2)	mV	100	100	120
10	Maximum Line Regulation	(*3)	mV	20		
11	Maximum Load Regulation	(*4)	mV	40		
12	Over Current Protection	(*5)	-	Yes		
13	Over Voltage Protection		-	No		
14	Parallel Operation		-	-		
15	Series Operation		-	Possible		
16	Operating Temperature	(*6)	-	-40°C ~ 85°C		
17	Operating Humidity		-	5% - 95%RH (No Dewdrop)		
18	Storage Temperature		-	-40°C ~ 85°C		
19	Storage Humidity		-	5% - 95%RH (No Dewdrop)		
20	Cooling		-	Convection Cooling / Forced air cooling		
21	Temperature Coefficient (%)		-	Less than 0.02%/°C		
22	Withstand Voltage		-	Input-Output, Input-Case : 500VAC for 1min (20mA)		
23	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output-Case : 500VDC		
24	Vibration		-	At No Operating, 10-55Hz Amplitude (Sweep for 1min.) 1.52mm Constant (Maximum 88.3m/s^2) X,Y,Z 2 hour each		
25	Shock		-	196.1m/s^2		
26	Weight (Typ.)		g	4		
27	Size (WxHxD)		mm	20.0 x 8.0 x 16.0 (Refer to Outline Drawing)		

= NOTES =

*1. At 5VDC and maximum output power and Ta=+25°C.

*2. This is specified at the output terminals by JEITA RC-9141 measuring method.

*3. From 4.5 ~ 9.0VDC, constant load.

*4. From No load - Full load, constant input voltage.

*5. Constant current limiting with automatic recovery.

    Avoid to operate over load or dead short for longer than 30 sec.

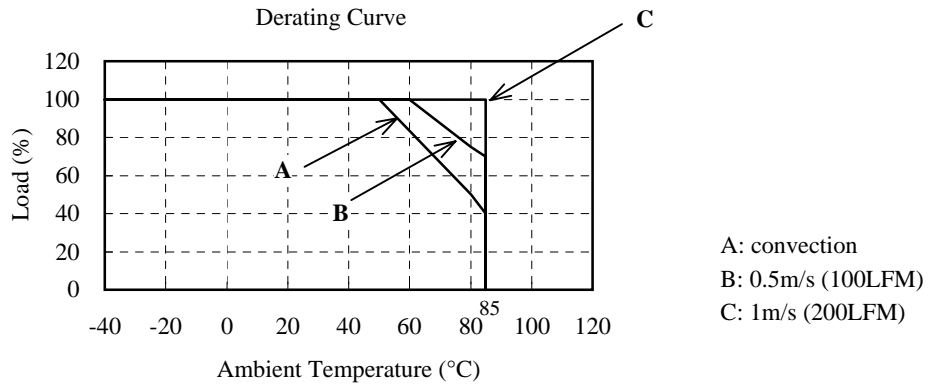   (Refer to instruction manual for details.)

*6. Rating - Refer to derating curve (C180-01-02_).

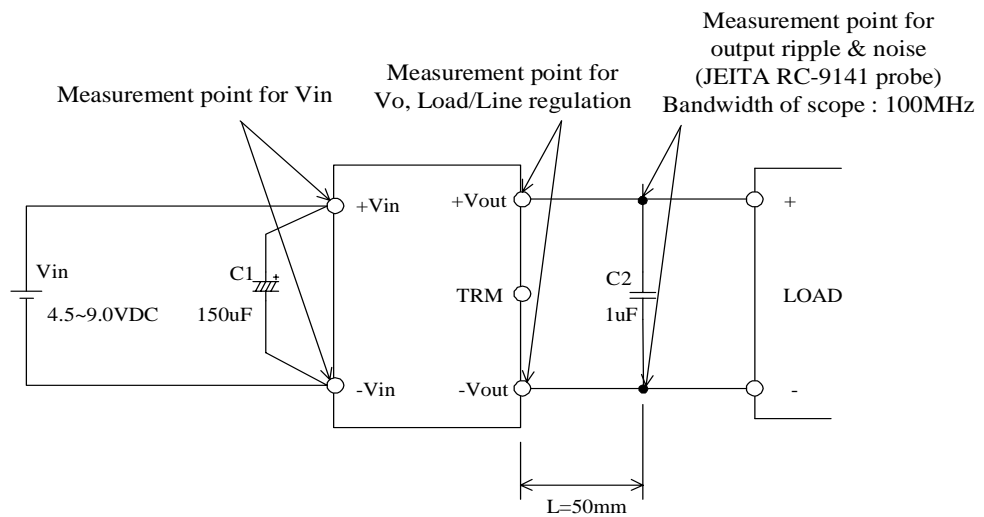   - Load(%) is percent of maximum output current.

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C180-01-02

1. DERATING CURVE

Derating Curve

C

120
100
80
60
40
20
0

Load (%)

-40   -20   0   20   40   60   80   100 120
                                    85
Ambient Temperature (°C)

A
B

A: convection
B: 0.5m/s (100LFM)
C: 1m/s (200LFM)

2. BASIC CONNECTION

Measurement point for
output ripple & noise
(JEITA RC-9141 probe)
Bandwidth of scope : 100MHz

Measurement point for
Vo, Load/Line regulation

Measurement point for Vin

+Vin   +Vout   +

Vin   C1   TRM   C2   LOAD
4.5~9.0VDC   150uF   1uF

-Vin   -Vout   -

L=50mm

==NOTES==
  *1. Put input capacitors.
        C1: 150uF
  *2. Put output capacitors.
        C2: 1uF ceramic capacitor.
  *3. Refer to instruction manual for further details.