

Apr.1,2002

Temperature increase of main components: 主要部品温度上昇

Model: CBS20024

1. Conditions

- (1) Input : DC 18 ~ 36 [V]
 (2) Output : Rated output
 (3) Aluminum base plate temp. : 03,05 ... 100 [°C]
 12,15,24,28 ... 85 [°C] (Fig1.1)
 (4) Ambient temp. : 25 [°C]

2. Result

The temperature Increase based on the aluminum base plate is shown below.

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3V	5V	12V	15V	24V	28V		
1	Input choke(coil)	L11	-2	4	7	11	12	12	120	
2	Switching transistor	TR11	24	28	37	32	33	32	175	Junction temp.
3	Rectified diode(Output)	SS52	25	24	14	16	26	22	150	Junction temp.
4	Transformer(coil)	T11	7	2	20	16	16	9	155	
5	Output choke(coil)	L51	36	38	22	28	37	31	155	
6	Power control IC	IC101	-1	6	7	9	9	6	150	Junction temp.
7	Transformer(coil)	T101	9	10	14	12	15	12	155	
8	Switching transistor	TR104	-4	2	7	6	20	4	150	Junction temp.
9	Capacitor	C15	-4	-2	1	2	0	1	125	
10	Diode	D103	-4	6	4	5	7	5	150	Junction temp.
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12										
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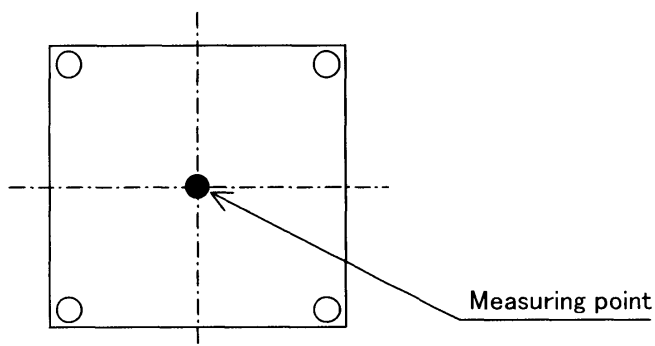


Fig.1.1 Measuring point of aluminum base plate temperature.