

Date : Oct 15,2004

Temperature increase of main components

Model: SUCS/SUCW1R505

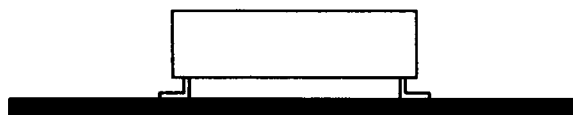
## 1. Conditions

- (1) Input :DC 4.5 - 9 [V]  
 (2) Output :Rated output  
 (3) Cooling method :Convection cooling  
 (4) Mounting method :Shown as Fig.1.1

## 2. Result

Table 2.1 Temperature increase of main components

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No.	Parts name	Symbol No.	Increase ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	±12V	±15V		
1	Transformer	T11	39	44	31	28	51	42	155	
2	Switching Transistor	TR11	45	57	40	39	62	49	150	Junction temp.
3	Rectified Diode(Output)	D50	—	—	—	—	46	40	150	Junction temp.
4	Rectified Diode(Output)	D51	47	47	39	36	—	—	150	Junction temp.
5	Input Choke	L11	43	51	31	32	53	47	125	
6	Output Choke	L50	—	—	—	—	35	32	125	
7	Output Choke	L51	35	38	23	21	—	—	125	
8	Photocoupler	PC11	39	41	32	33	43	39	125	Junction temp.
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(Side view)

Fig.1.1 Mounting method  
(Normal position)