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Temperature increase of main components

Model: SUCS/SUCW1005

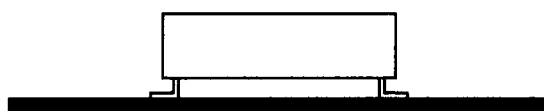
## 1. Conditions

- (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

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	±12V	±15V		
1	Switching Transistor	TR31	53	51	49	46	47	43	150	Junction Temp.
2	Transformer	T11	60	53	55	50	51	49	155	
3	Rectifying MOS-FET	TR51	60	48	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	58	47	51	48	38	34	150	Junction Temp.
5	Photocoupler	PC11	47	42	43	39	35	31	125	Junction Temp.
6	Input Choke Coil	L11	47	44	45	40	42	38	120	
7	Output Choke Coil	L51	45	42	34	28	29	27	120	
8	Output Capacitor	C51	50	42	39	34	33	31	125	
9	Power Control IC	IC11	43	42	41	38	40	36	150	
10	Current Transformer	T12	43	41	41	37	38	33	155	
11										
12										
13										
14										
15										
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19										
20										



(Side view)

Fig.1.1 Mounting method  
(Normal position)