

Temperature increase of main components

Model: SUCS/SUCW1R512

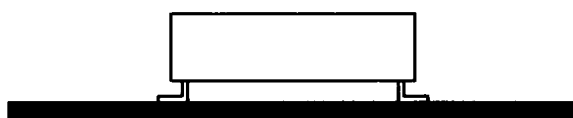
1. Conditions

- (1) Input :DC 9 - 18 [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 (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	±12V	±15V		
1	Transformer	T11	32	36	26	23	32	32	155	
2	Switching Transistor	TR11	28	30	21	22	30	29	150	Junction temp.
3	Rectified Diode(Output)	D50	—	—	—	—	39	33	150	Junction temp.
4	Rectified Diode(Output)	D51	39	37	35	29	—	—	150	Junction temp.
5	Input Choke	L11	31	32	25	26	35	34	125	
6	Output Choke	L50	—	—	—	—	27	25	125	
7	Output Choke	L51	30	29	20	16	—	—	125	
8	Photocoupler	PC11	34	34	27	26	38	34	125	Junction temp.
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18										
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(Side view)

Fig.1.1 Mounting method
(Normal position)