

Temperature increase of main components

Model: SUCS/SUCW312

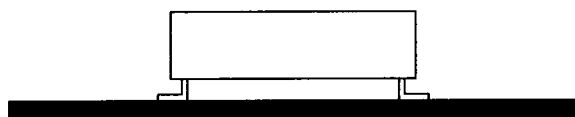
1. Conditions

- (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

Table 2.1 Temperature Increase of main components										
No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Transformer	T11	28	37	36	40	43	36	155	
2	Switching Transistor	TR11	26	33	36	39	37	39	150	Junction temp.
3	Rectified Diode(Output)	D51	37	40	44	44	-	-	150	Junction temp.
4	Rectified Diode(Output)	D52	-	-	-	-	41	32	150	Junction temp.
5	Input Choke	L11	21	26	30	34	31	32	130	
6	Output Choke	L51	23	25	27	30	-	-	130	
7	Output Choke	L52	-	-	-	-	30	28	125	
8	Photocoupler	PC11	31	35	40	45	38	41	125	Junction temp.
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(Side view)

Fig.1.1 Mounting method
(Normal position)