

Temperature increase of main components

Model: SUCS/SUCW1005

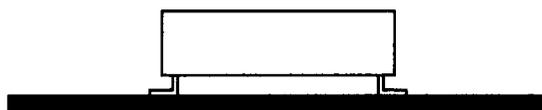
1. Conditions

- (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 (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
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	
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12										
13										
14										
15										
16										
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19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)