

Temperature increase of main components

Model: SUT□1012□□

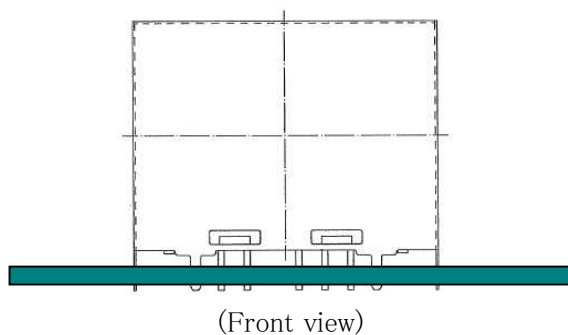
## 1. Conditions

- (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

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	±12V	±15V		
1	Switching Transistor	TR31	54	52	54	52	52	46	150	Junction Temp.
2	Transformer	T11	58	56	55	57	55	47	155	
3	Rectifying MOS-FET	TR51	67	61	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	66	63	67	64	53	44	150	Junction Temp.
5	Photocoupler	PC11	51	50	51	47	46	40	125	Junction Temp.
6	Input Choke Coil	L11	46	44	48	45	47	38	130	
7	Output Choke Coil	L51	58	58	48	43	49	38	130	
8	Output Capacitor	C51	56	54	51	48	51	41	125	
9	Power Control Ic	IC11	42	41	42	46	44	38	150	
10	Current Transformer	T12	45	43	44	45	45	37	155	
11										
12										
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Fig.1.1 Mounting method  
(Normal position)