

Mar.13,2025

Temperature increase of main components: 主要部品温度上昇

Model: MU□1R505□□ / MU□305□□

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) [deg]							Rated temp. [°C]	Reference
			MUS1R5	MUS3				MUW3			
			5V	3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Switching MOS-FET	TR11	17	27	31	29	29	30	30	150	Junction Temp.
2	Input Choke Coil	L11	15	20	25	22	22	24	24	125	
3	Output Choke Coil	L51	15	24	25	22	19	23	20	125	
4	Rectified diode(Output)	D51	21	33	34	27	26	30	27	150	Junction Temp.
5	Transformer	T11	19	29	33	31	30	35	32	155	
6	Optocoupler	PC31	17	25	28	25	25	28	22	135	Junction Temp.
7	Case	CASE	16	24	28	25	26	28	26	130	Top Surface Center
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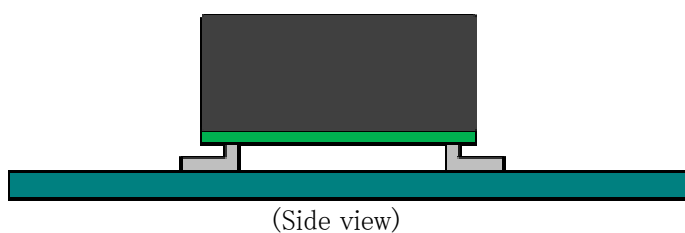


Fig.1.1 Mounting method
(Normal position)