

Mar.13,2025

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

Model: MU□1R512□□ / MU□312□□

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(Δ T) [deg]								Rated temp. [°C]	Reference
			MUS1R5	MUS3				MUW3				
				5V	3.3V	5V	12V	15V	±12V	±15V		
1	Switching MOS-FET	TR11	14	24	31	28	29	33	28	150	Junction Temp.	
2	Input Choke Coil	L11	15	18	23	23	20	25	20	125		
3	Output Choke Coil	L51	16	22	27	21	20	23	19	125		
4	Rectified diode(Output)	D51	18	31	35	29	27	31	25	150	Junction Temp.	
5	Transformer	T11	16	27	35	31	29	34	28	155		
6	Optocoupler	PC31	13	23	27	22	25	28	24	135	Junction Temp.	
7	Case	CASE	14	22	28	26	25	22	25	130	Top Surface Center	
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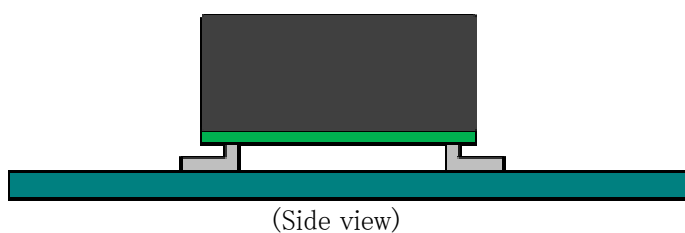


Fig.1.1 Mounting method
(Normal position)