

Mar.13,2025

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

Model: MU□1R548□□ / MU□348□□

### 1. Conditions

- (1) Input :DC 36 ~ 76 [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	25	26	35	38	37	35	37	150	Junction Temp.	
2	Input Choke Coil	L11	19	20	25	27	25	28	28	125		
3	Output Choke Coil	L51	17	24	27	24	23	25	23	125		
4	Rectified diode(Output)	D51	24	32	35	32	29	32	30	150	Junction Temp.	
5	Transformer	T11	29	32	39	37	37	39	40	155		
6	Optocoupler	PC31	21	25	30	26	30	28	31	135	Junction Temp.	
7	Case	CASE	25	26	33	31	32	33	33	130	Top Surface Center	
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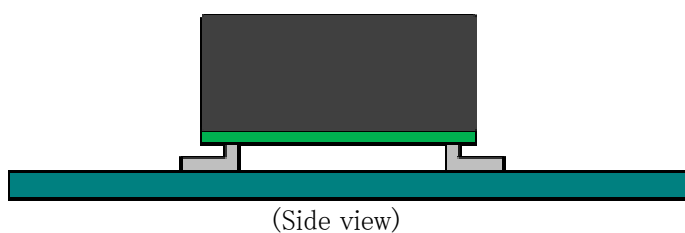


Fig.1.1 Mounting method  
(Normal position)