

Temperature increase of main components

Model: MHFS348□□

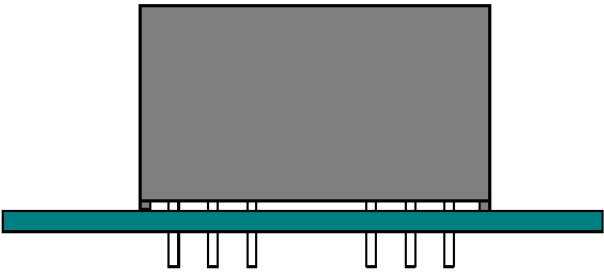
1. Conditions

- (1) Input :DC 48 [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	9V	12V	15V		
1	Switching MOS-FET	TR101	31	30	25	27	27	150	Junction Temp.
2	Switching MOS-FET	TR111	31	32	27	27	29	150	Junction Temp.
3	Input Choke Coil	L101	29	29	25	25	27	125	
4	Rectified diode(Output)	D201	38	37	30	28	28	150	Junction Temp.
5	Transformer	T11	33	34	29	30	32	130	
6	Photocoupler	PC11	27	28	23	23	24	125	Junction Temp.
7	Case	CASE	30	30	24	26	28	105	Top Surface Center
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(Side view)

Fig.1.1 Mounting method
(Normal position)