

Temperature increase of main components

Model: MHFS312□□

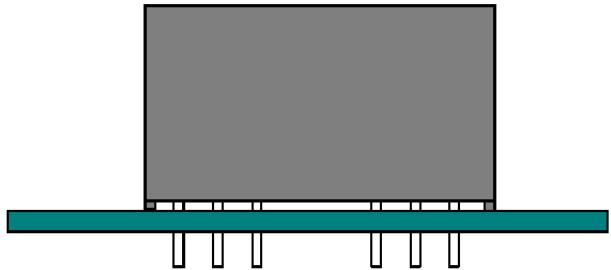
1. Conditions

- (1) Input :DC 12 [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	9V	12V	15V		
1	Switching MOS-FET	TR101	33	36	30	27	26	150	Junction Temp.
2	Switching MOS-FET	TR111	32	35	29	29	29	150	Junction Temp.
3	Input Choke Coil	L101	30	32	27	27	26	125	
4	Rectified diode(Output)	D201	35	37	29	27	25	150	Junction Temp.
5	Transformer	T11	32	34	29	29	29	130	
6	Photocoupler	PC11	26	28	22	22	21	125	Junction Temp.
7	Case	CASE	29	30	25	26	25	105	Top Surface Center
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(Side view)

Fig.1.1 Mounting method  
(Normal position)