

Temperature increase of main components

Model: MHFW312□□

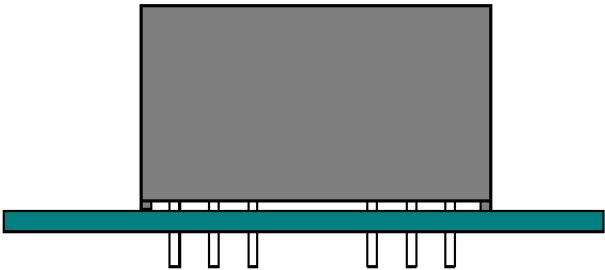
1. Conditions

- (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 (ΔT)					Rated temp. [°C]	Reference
			[deg]						
			$\pm 12V$	$\pm 15V$	-	-	-		
1	Switching MOS-FET	TR101	35	33	-	-	-	150	Junction Temp.
2	Switching MOS-FET	TR111	36	34	-	-	-	150	Junction Temp.
3	Input Choke Coil	L101	34	32	-	-	-	125	
4	Rectified diode(Output)	D201	35	31	-	-	-	150	Junction Temp.
5	Rectified diode(Output)	D202	35	32	-	-	-	150	Junction Temp.
6	Transformer	T11	36	35	-	-	-	130	
7	Photocoupler	PC11	30	28	-	-	-	125	Junction Temp.
8	Case	CASE	32	30	-	-	-	105	Top Surface Center
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(Side view)

Fig.1.1 Mounting method
(Normal position)