

Temperature increase of main components

Model: MGFS1548□□

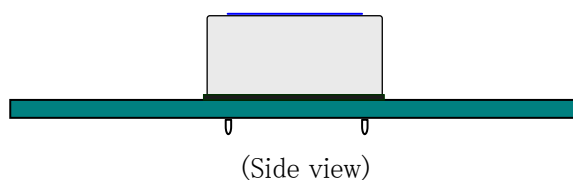
## 1. Conditions

- (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 ( $\Delta T$ )				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Transformer	T101	64	62	56	54	155	
2	Switching MOS-FET	TR101	65	60	56	56	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR202	59	54	50	51	150	Junction Temp.
4	Output Choke Coil	L201	54	50	46	44	125	
5	Bipolar Transistor	TR113	58	54	51	49	150	Junction Temp.
6	Case	—	50	47	44	41	—	
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Fig.1.1 Mounting method  
(Normal position)