

Temperature increase of main components

Model: MGFS8048□□

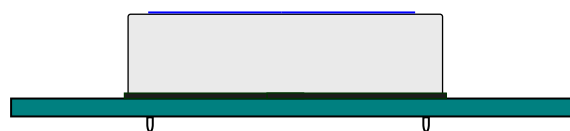
1. Conditions

- (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

Table 2-1 Temperature Increase of main components								
No.	Parts name	Symbol No.	Increase (ΔT)				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR101	49	53	51	45	150	Junction Temp.
2	Input Choke Coil	L101	39	43	41	34	125	
3	Rectified MOS-FET(Output)	TR502	56	65	53	47	150	Junction Temp.
4	Output Choke Coil	L501	46	61	44	38	125	
5	CASE	CASE	43	50	43	40	105	Top Surface Center
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(Side view)

Fig.1.1 Mounting method
(Normal position)