

Temperature increase of main components

Model: MGFS4048□□

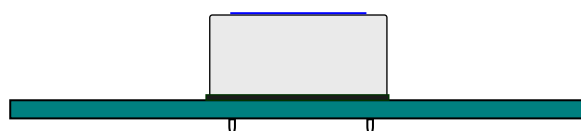
1. Conditions

- (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	12V	15V		
1	Switching MOS-FET	TR101	39	51	52	49	150	Junction Temp.
2	Input Choke Coil	L101	38	45	47	42	125	
3	Rectified MOS-FET(Output)	TR501	49	55	54	44	150	Junction Temp.
4	Output Choke Coil	L501	43	46	47	49	150	
5	CASE	CASE	40	46	46	41	110	Top Surface Center
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(Side view)

Fig.1.1 Mounting method
(Normal position)