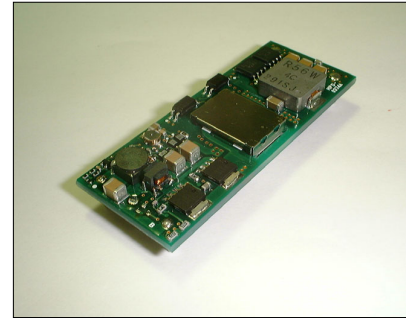


MPDKN10_S Series Isolated 50W One-Eighth Brick DC-DC Converter for Telecom Equipment

■ Features

- Lowest Profile in the Industry (8.5mm Typ.)
- High Efficiency (Up to 90%)
- Wide Input Voltage Range (36 to 75V)
- Trim Function Vout Range (-20 to +10% of Nominal)
- Input-Output Isolation (1.5kVdc)
- Open Frame (Forced Air Convection Cooling)
- Wide Operating Ambient Temp. (-40 to +85°C)
- Over Current Protection
- Over Voltage Protection
- Over Temperature Protection
- On/Off Control (Negative Logic)
- Output Voltage Remote Sensing
- UL60950 Recognized
- Protection Function Latch Method



■ Electrical Specifications

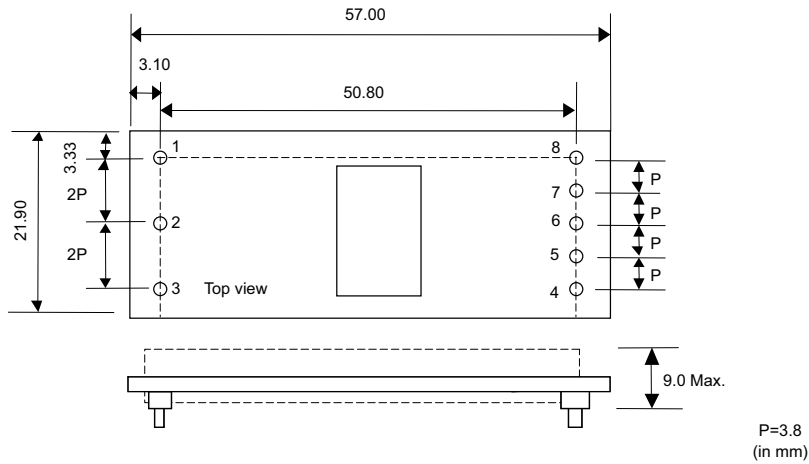
Item	Model	MPDKN10_S				
		104	106	107	117	118
Input Voltage Range		48V (36 to 75V)				
Nominal Output Voltage		1.8V	2.5V	3.3V	3.3V	5.0V
Nominal Output Current		20A	18A	15A	20A	13A
Nominal Output Wattage		36W	45W	50W	66W	65W
Output Voltage Accuracy		±3% (Input Voltage Range 36 to 75V, Operation Temperature Range -40 to 85°C)				
Efficiency (Typ) <small>Note 1</small>		84%	87%	89%	89%	90%
Output Ripple Noise Voltage (Max.)		100mVp-p (fbw=20MHz)				
Output Voltage Variable Range		20 to +10% (106: -10 to +10%)				
Protection Function		Over Voltage, Over Current, Over Temperature Protection				
Over Current Protection Value		-				
Over Voltage Protection Value		120 to 140%				
Over Heat Protection Value		-				
Remote On/Off		Negative Logic				
Input-Output Isolation Voltage		1,500Vdc (1 minute)				
Safety Standard		UL60950 (US and Canada) Our Program				
Operation Temperature/Humidity Range		-40 to 85°C, 20 to 85% (No Dew, Power Derating)				
Operation Storage Temperature/Humidity Range		-45 to 90°C, 10 to 95% (No Dew)				

Note 1: Nominal Input Voltage, Nominal Output Current

▲Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

MPDKN10_S Series Isolated 50W One-Eighth Brick DC-DC Converter for Telecom Equipment

■ Appearance and Dimensions

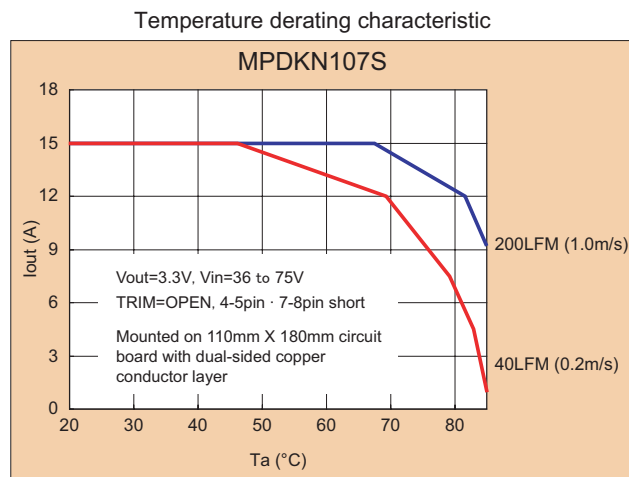


■ Pin Number and Function

Pin No.	Name	Function
1	Vin (+)	Positive Input Voltage
2	On/Off	Remote Control On/Off
3	Vin (-)	Negative Input Voltage
4	Vout (-)	Negative Output Voltage
5	SENSE (-)	Negative Remote Sense
6	TRIM	Output Voltage Trim
7	SENSE (+)	Positive Remote Sense
8	Vout (+)	Positive Output Voltage

■ Typical Power Derating

When using this product at the ambient air temperature of 30 degreeC or more, it should be used by the following temperature derating.



Products specification in this spec sheet are as of April 2004, and are subject to change or stop the supply without notice. Please confirm the specification before ordering any products. If there are any questions, please contact our sales representatives or engineers.

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