

DM01 Series

wide input & regulated single output

DC-DC Step-Down converter



FEATURES

- Wide Input voltage range
- Operating temperature range: -25°C to +85°C
- Isolation voltage up to 1.5K VDC
- Regulated output, Low ripple & noise
- Output short circuit, over-current protection
- High efficiency up to 92%

Selection Guide

Certification	Part No.	Input Voltage	Output Voltage	Output Current	Efficiency @1A
FCC	DM01-033030B	5.0-28V	3.3V	0-3A	88%
	DM01-050030B	8.0-28	5.0V	0-3A	88%
	DM01-090030B	12-28V	9.0V	0-3A	90%
	DM01-120030B	15-28V	12.0V	0-3A	92%

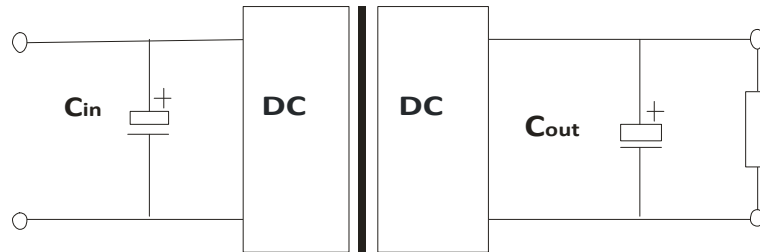
Output Specification

Item	Operating Condition	Min.	Typ.	Max.	Unit
Output Voltage Range	DM01-033030B	3.2	3.3	3.4	VDC
	DM01-050030B	4.9	5.0	5.1	VDC
	DM01-090030B	11.8	12	12.2	VDC
	DM01-120030B	23.7	24	24.3	VDC
Ripple & Noise		-	60	120	mVp-p
Output Over-voltage Protection	Input Voltage range	110	-	160	% Vo
Output Over-current Protection	Input Voltage range	110	160	230	% Io
Short Circuit Protection	Input Voltage range	Hiccup, Continuous, self-recovery			

General Specification

Item	Operating Condition	Min.	Typ.	Max.	Unit
Insolation Voltage		1500			Vdc
Operating Temperature		-20		85	°C
Storage Tmeperature		-20		105	°C
Storage Humidity		5		95	°C
Welding Temperature	Wave-soldering	260 ± 5°C; time: 5 - 10s			
	Manual-soldering	360 ± 10°C; time: 3 - 5s			
Switching Frequencn		500			KHz

Typical application circuit:



Dimension:

Part No.	Size (Units mm)
DM01-033030B	22*16.7*4
DM01-050030B	22*16.7*4
DM01-090030B	22*16.7*4
DM01-120030B	22*16.7*4