

DM05 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	MAX. Efficiency
FCC	DM05-033006B	4.5-55V	3.3	0-0.6A	92%
	DM05-050006B	6.5-55V	5.0V	0-0.6A	92%
	DM05-090006B	10-55V	9.0V	0-0.6A	92%
	DM05-120006B	13-55V	12.0V	0-0.6A	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	8.8	9.0	9.2	VDC
	DM01-120030B	11.8	12.0	12.2	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)
DM05-033006B	22*17*6.8
DM05-050006B	22*17*6.8
DM05-090006B	22*17*6.8
DM05-120006B	22*17*6.8