

DC - DC Regulated
Single Output Converter



HR832106

Features :

Short circuit protection
Thermal shutdown
Non-isolated
High efficiency up to 95%
Low ripple and noise
100% burn-in test
Pin Compatible to LM78xx
Regulated output

Electrical Specification @25°C

Output	DC Volatage	6V
	Current Range	0 ~ 1.5A
	Rated Power	9W
	Ripple & Noise	45mVp-p Max. @ BW=DC to 20MHz
	Voltage Accuracy	±3%
	Switching Frequcy	410KHz Typ.
	Line Regulation	±1%
	Load Regulation	±1%
Input	Voltage Range	12VDC (8-18VDC)
	Efficiency (Typ.)	95% Typ. @ 8VDC ; 93% Typ.@ 18VDC
	DC Current	10 mA Max @ no Load
	Filter	Capacitor
Protection	Short Circuit	continuous ,auto recorvery
	Thermal shundown	internal IC junction ,150°C
Environment	Working Temprature	-40 ~ +85°C
	Working Humidity	0% ~ 90% RH non-condensing
	Storage Temp., Humidity	-55 ~ +125°C, 10 ~ 95% RH
Others	Dimension	17.5*115*9.0 mm (L*W*H)
	Weight	about 3.5g

Note :

- 1.All parameters are specified at normal input, rated load, 25°C ambient.
- 2.Ripple & noise are measured by using a probe terminated with a 0.1uf & 47uf capacitor
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 10% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.
- 6.This part is not designed for parallel operation.

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Pin Assignment

Pin	1	2	3
Single	+Vin	Ground	+Vo

Standard Application Circuit

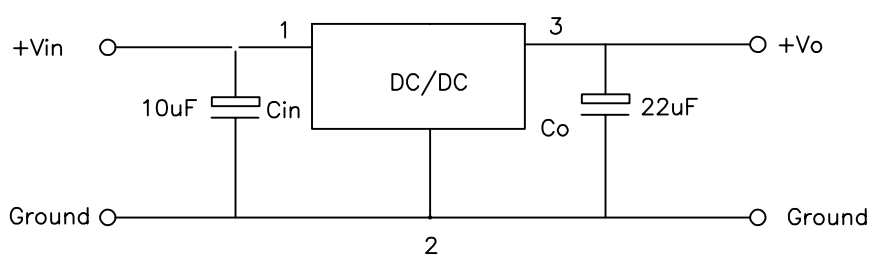
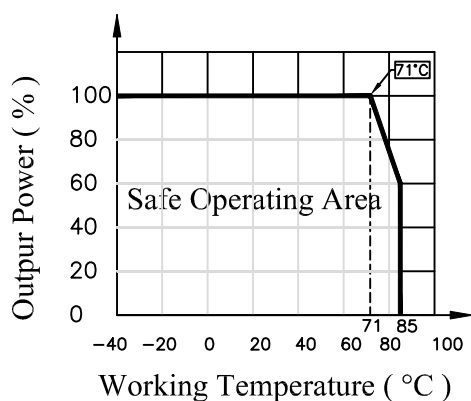
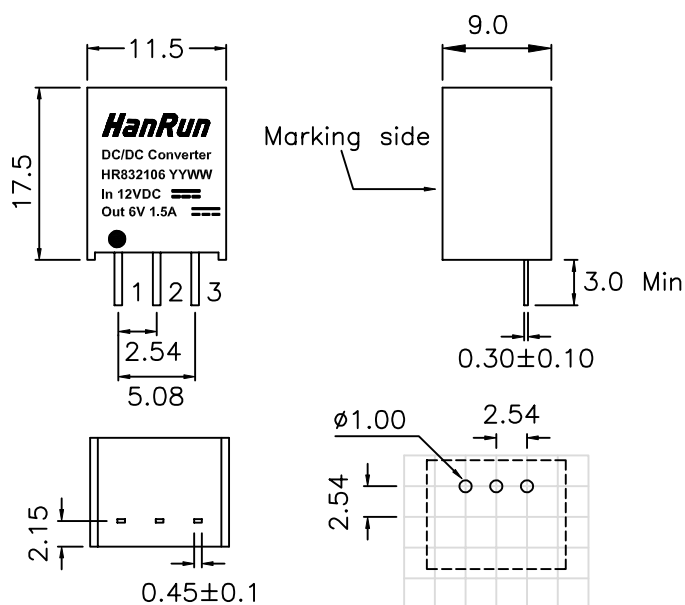


Figure 1

Temperature Derating Graph



Mechanical Dimensions



Unless otherwise specified, Unit in mm
Tol.: .x ± 0.5 (mm), .xx ± 0.25 (mm)