

## HR832105

### Features :

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

### Electrical Specification @25°C

Output	DC Volatage	5V
	Current Range	0 ~ 1.5A
	Rated Power	7.5W
	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 (6.5-18VDC)
	Efficiency (Typ.)	94% Typ. @ 6.5VDC ; 91% 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

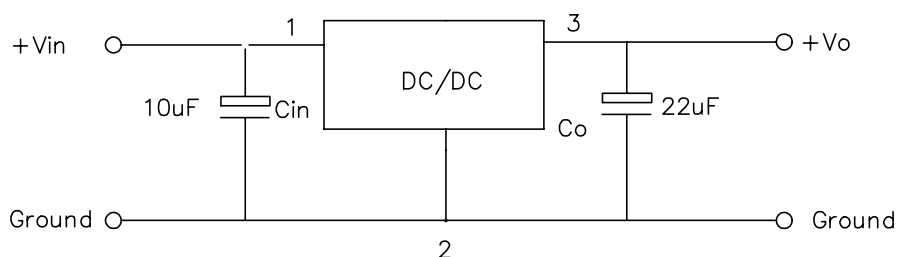
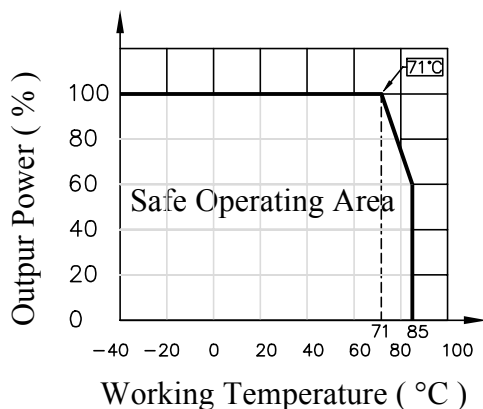
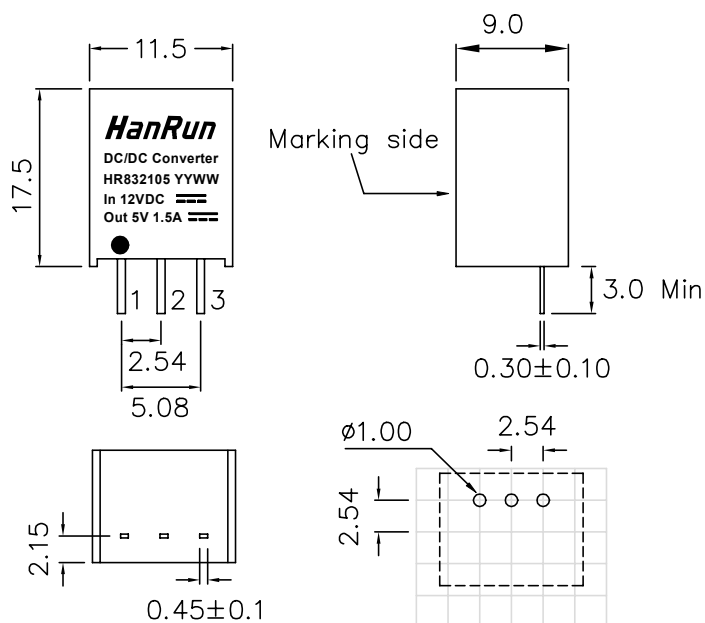


Figure 1

### Temperature Derating Graph



### Mechanical Dimensions



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