

DC - DC Converter  
Non-isolated and Regulated Single Output



HR832103A

Features :

Short circuit protection  
Thermal shutdown  
Non-isolated  
High efficiency up to 92%  
Low ripple and noise  
100% burn-in test  
Pin Compatible to LM78xx  
Regulated output

Electrical Specification

Output	DC Volatage	3.3V
	Current Range	0 ~ 1.5A
	Rated Power	4.95W
	Ripple & Noise	60mVp-p Max. @ BW=DC to 20MHz
	Voltage Accuracy	±3%
	Switching Frequcy	600KHz Typ.
	Line Regulation	±1%
	Load Regulation	±1% @ 10% -100% load
Input	Voltage Range	12VDC (4.75-18VDC)
	Full Load Efficiency (Typ.)	89% Min.@ 4.75Vin ; 88% Typ., 86% Min.@ 18Vin
	No-load Power Consumption	5mW Max @ 4.75Vin , 15mW Max @ 18Vin
	Filter	Capacitor
Protection	Short Circuit	Continuous, self-recovery
	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*11.5*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

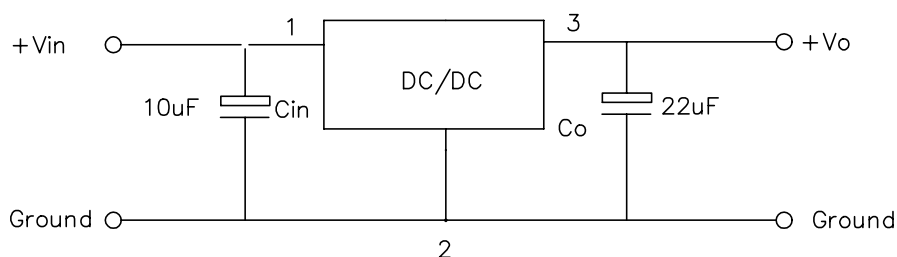
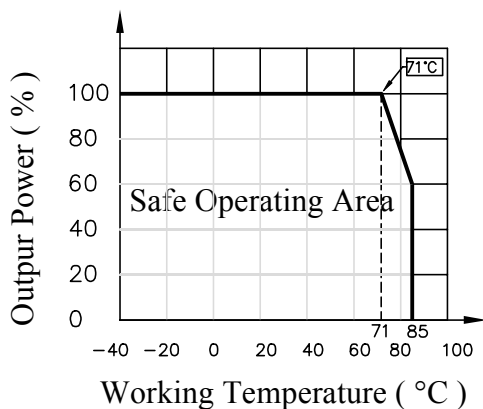
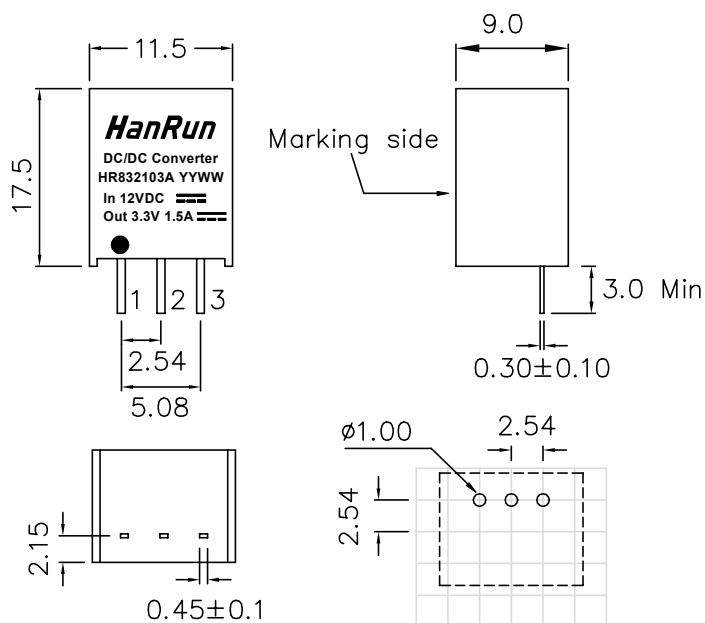


Figure 1

### Temperature Derating Graph



### Mechanical Dimensions



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