## Features

- RoHS compliant
- Efficiency up to 87.6%
- 2.0kVDC Isolation
- Single output
- Short circuit protection
- Industry standard required
- Low power consumption
- Wide temperature performance
  1 Watt load,-40℃ to 85℃


## Model Selection Guide

| Order Code | Vin(V) | | Output | | Max capacitive Load | Efficiency(%) (Typ) |
|---|---|---|---|---|---|---|
| | Nominal | Range | Vo(V) | Io(mA) | | |
| B0303LS-1WR3 | 3.3 | 3.0-3.6 | 3.3 | 300 | 220 | 81.0 |
| B0305LS-1WR3 | | | 5 | 200 | 220 | 81.0 |
| B0503LS-1WR3 | 5 | 4.5-5.5 | 3.3 | 300 | 220 | 81.5 |
| B0505LS-1WR3 | | | 5 | 200 | 220 | 86.0 |

*All the specifications typical at Ta=+25℃ resistive load, nominal input voltage and rated output current unless otherwise noted.

## Input Characteristics

| Parameter | Condition | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Input Surge Voltage (1 sec. Max.) | 3.3V Input Models | -0.7 | -- | 5 | VDC |
| | 5V Input Models | -0.7 | -- | 7 | |
| Input Filter | All Models | Internal Capacitor | | | |

## Output Characteristics

| Parameter | Condition | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Line regulation | Vin change 1% | ±1.2 | -- | ±1.5 | % |
| Load regulation | 10%～100% load | 6.5 | -- | 15 | % |
| Ripple and noise | BW=DC to 20MHz | 30 | 75 | | mVp-p |
| Short circuit Protection | | Continuous,Automatic Recovery | | | |

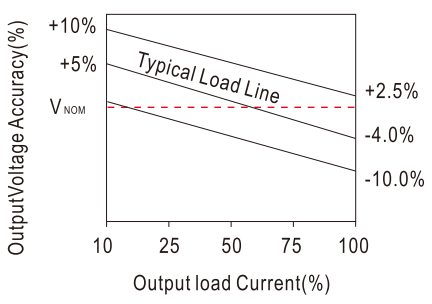
## General Characteristics

| Parameter | Condition | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Operating Temperature | All output types | -40 | -- | +85 | ℃ |
| Storage | | -55 | -- | +125 | ℃ |
| Storage humidity | | -- | -- | +95 | % |
| Cooling | Free air convection | -- | -- | -- | |
| Isolation voltage | 1mA≤1minute | 2000 | -- | -- | VDC |
| Isolation resistance | 500VDC | 1000 | -- | -- | MΩ |
| Switching Frequency | Full load,nominal input | -- | 210 | | KHz |
| MTBF | $3.5\times10^6$ | | | | K hours |

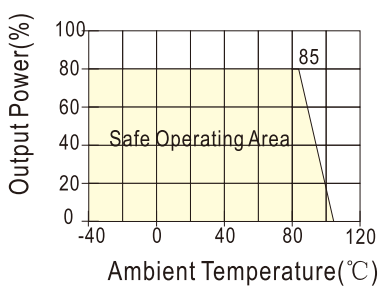




## Tolerance Envelopes Curve

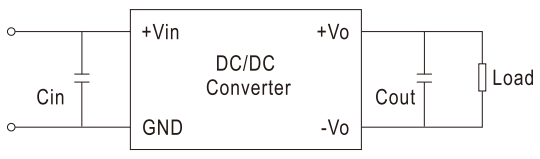



## Temperature Derating Graph Curve




## Input/Output Ripple Reduction

Reduce output ripple, it isrecommended to use capacitors at the input/output.

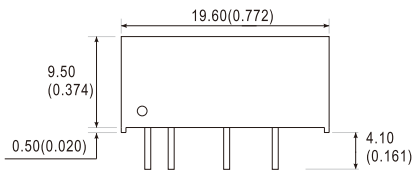


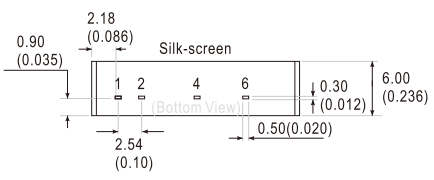

| External Capacitor Table | |
|---|---|
| Vin(VDC) | 5 |
| Cin(uF) | 4.7 |
| Vout(VDC) | 5 |
| Cout(uF) | 10 |

## Note

1. To ensure this module can operate efficinetly and reliably,During operation,the minimum output load is not less than 10% of the full load.
2. Other input and output voltage may be available, please
3. Specifications subject to change without notice

## Mechanical Dimension & Pin Connections




| Pin | 1 | 2 | 4 | 6 |
|---|---|---|---|---|
| Function | Vin | GND | -Vo | +Vo |

Note:
Unit:mm(inch)