

Features

- RoHS compliant
- Efficiency up to 83%
- 1kVDC Isolation
- Single output
- Short circuit protection (Suffix "R2" only SIP, optional)

DC/DC CONVERTER

- Industry standard required
- Wide temperature performance at full 2 Watt load, -40 to 85



| Model Selection Guid | е | | | | | |
|-----------------------------|---------|-----------|--------|--------|----------------|---------------|
| Order Code | Vin(V) | | Output | | Max capacitive | Efficiency(%) |
| | Nominal | Range | Vo(V) | Io(mA) | Load | (Typ) |
| B0505S/D-2W(R2) | | | 5 | 400 | 330 | 80 |
| B0509S/D-2W(R2) | | | 9 | 222 | 220 | 83 |
| B0512S/D-2W(R2) | 5 | 4.5-5.5 | 12 | 167 | 220 | 83 |
| B0515S/D-2W(R2) | | | 15 | 133 | 220 | 84 |
| B0524S/D-2W(R2) | | | 24 | 83 | 150 | 82 |
| B1205S/D-2W(R2) | | | 5 | 400 | 330 | 81 |
| B1209S/D-2W(R2) | | | 9 | 222 | 220 | 81 |
| B1212S/D-2W(R2) | 12 | 10.8-13.2 | 12 | 167 | 220 | 84 |
| B1215S/D-2W(R2) | | | 15 | 133 | 220 | 82 |
| B1224S/D-2W(R2) | | | 24 | 83 | 150 | 80 |
| B2405S/D-2W(R2) | | | 5 | 400 | 330 | 80 |
| B2409S/D-2W(R2) | | | 9 222 | 220 | 83 | |
| B2412S/D-2W(R2) | 24 | 21.6-26.4 | 12 | 167 | 220 | 83 |
| B2415S/D-2W(R2) | | | 15 | 133 | 220 | 83 |
| B2424S/D-2W(R2) | | | 24 | 83 | 150 | 84 |

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

| Input Characteristics | | | | | | |
|-----------------------------------|-------------------|------|------------|----------|-------|--|
| Parameter | Condition | Min | Тур | Max | Units | |
| | 3.3V Input Models | -0.7 | | 6 | | |
| Input Surge Voltage (1 sec. Max.) | 5V Input Models | -0.7 | | 9 | VDC | |
| | 12V Input Models | -0.7 | | 18 | VDC | |
| | 24V Input Models | -0.7 | | 30 | | |
| Input Filter | All Models | | Internal C | apacitor | | |

| Output Characteristics | | | | | |
|--------------------------|--------------------------|--------------|------------------|---------------|-------|
| Parameter | Condition | Min | Тур | Max | Units |
| Line regulation | Vin change 1% | <u>+</u> 1.2 | | <u>+</u> 1.5 | % |
| Switching frequency | Full load, nominal input | | 100 | | KHz |
| Load regulation | 10% ~ 100% load | 6.5 | | 15 | % |
| Ripple and noise | BW=DC to 20MHz | | 75 | 100 | mVp-p |
| Short circuit Protection | Suffix "R2" | | Continuous, Auto | matic Recover | у |

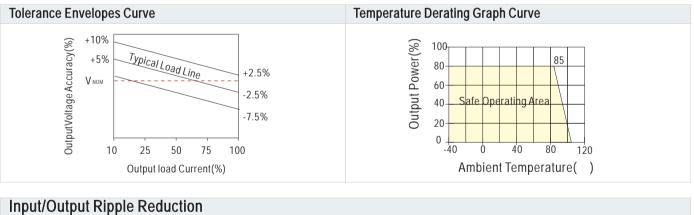
www.reicu.com

Page 1 of 2 E-mail:service@reicu.com REV:13.1

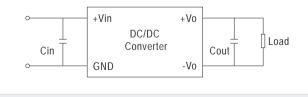


B****S/D-2W(R2) Series

| Parameter | Condition | Min | Тур | Max | Units |
|-----------------------|---------------------|------|-----|------|---------|
| Operating Temperature | All output types | -40 | | +85 | |
| Storage | | -55 | | +125 | |
| Storage humidity | | | | +95 | % |
| Cooling | Free air convection | | | | |
| solation voltage | 1mA 1minute | 1000 | | | VDC |
| Isolation resistance | 500VDC | 1000 | | | М |
| Switching Frequency | | | 100 | 110 | KHz |
| MTBF | 3.5×10^{6} | | | | K hours |



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



| Vin(VDC) | 5 | 12 | 15 | 24 | |
|-----------|-----|-----|-----|----|------|
| Cin(uF) | 4.7 | 2.2 | 2.2 | 1 | |
| Vout(VDC) | 5 | 9 | 12 | 15 | 24 |
| Cout(uF) | 10 | 4.7 | 2.2 | 1 | 0.47 |

Note

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

