

FEATURES :

- 7PIN SIP Package
- High Efficiency up to 85%
- Output Continuous Short Circuit Protection
- Unregulated Output Types
- Internal SMD Construction
- Industry Standard Pinout
- Operating Temperature:-40°C TO +105°C

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

| Part Number | Output Voltage | Output Current | Ripple & Noise | | Efficiency |
|---------------|----------------|----------------|----------------|-------------|------------|
| | Vdc | mA | Typ (mVp-p) | Max (mVp-p) | %Typ |
| 14DB-05S05N2W | 5 | 400 | 60 | 100 | 80 |
| 14DB-05S09N2W | 9 | 222 | 60 | 100 | 82 |
| 14DB-05S12N2W | 12 | 167 | 60 | 100 | 82 |
| 14DB-05S15N2W | 15 | 133 | 60 | 100 | 82 |
| 14DB-12S05N2W | 5 | 400 | 60 | 100 | 82 |
| 14DB-12S09N2W | 9 | 222 | 60 | 100 | 82 |
| 14DB-12S12N2W | 12 | 167 | 60 | 100 | 84 |
| 14DB-12S15N2W | 15 | 133 | 60 | 100 | 84 |
| 14DB-15S05N2W | 5 | 400 | 60 | 100 | 80 |
| 14DB-15S09N2W | 9 | 222 | 60 | 100 | 82 |
| 14DB-15S12N2W | 12 | 167 | 60 | 100 | 83 |
| 14DB-15S15N2W | 15 | 133 | 60 | 100 | 83 |
| 14DB-24S05N2W | 5 | 400 | 60 | 100 | 82 |
| 14DB-24S09N2W | 9 | 222 | 60 | 100 | 84 |
| 14DB-24S12N2W | 12 | 167 | 60 | 100 | 84 |
| 14DB-24S15N2W | 15 | 133 | 60 | 100 | 84 |
| 14DB-24S24N2W | 24 | 84 | 60 | 100 | 85 |
| 14DB-05D05N2W | ±5 | ±200 | 60 | 120 | 80 |
| 14DB-05D09N2W | ±9 | ±111 | 60 | 120 | 82 |
| 14DB-05D12N2W | ±12 | ±84 | 60 | 120 | 82 |
| 14DB-05D15N2W | ±15 | ±67 | 60 | 120 | 82 |
| 14DB-12D05N2W | ±5 | ±200 | 60 | 120 | 82 |
| 14DB-12D09N2W | ±9 | ±111 | 60 | 120 | 84 |
| 14DB-12D12N2W | ±12 | ±84 | 60 | 120 | 84 |
| 14DB-12D15N2W | ±15 | ±67 | 60 | 120 | 84 |
| 14DB-15D05N2W | ±5 | ±200 | 60 | 120 | 80 |
| 14DB-15D09N2W | ±9 | ±111 | 60 | 120 | 82 |
| 14DB-15D12N2W | ±12 | ±84 | 60 | 120 | 83 |
| 14DB-15D15N2W | ±15 | ±67 | 60 | 120 | 83 |
| 14DB-24D05N2W | ±5 | ±200 | 60 | 120 | 82 |
| 14DB-24D09N2W | ±9 | ±111 | 60 | 120 | 78 |
| 14DB-24D12N2W | ±12 | ±84 | 60 | 120 | 78 |
| 14DB-24D15N2W | ±15 | ±67 | 60 | 120 | 80 |

Input Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|-------------------|------------|-----|-----|-----|-------|
| Voltage Tolerance | Vo,Io Nom | | | ±10 | % |
| Filter | Capacitor | | | | |



DC-DC Converter

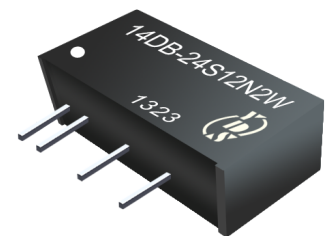
14DB-2W SERIES

2Watt

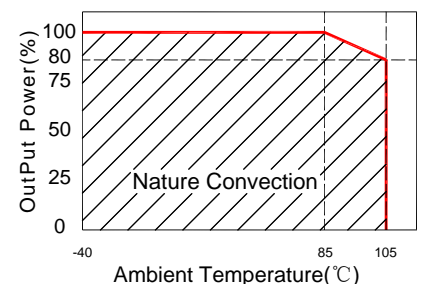
1KV Isolated

Single & Dual Output

SIP7



Temperature Derating Graph



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Rev:o 2017/5/9

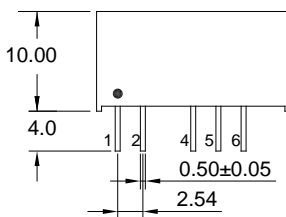
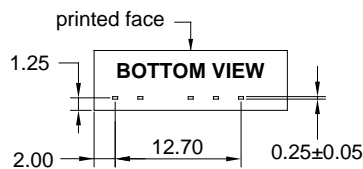
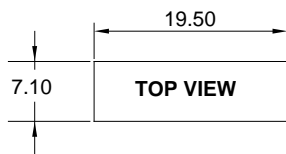
Output Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|--------------------------|-------------------------------|-----|-----|-----|-------|
| Voltage Tolerance | 100% full load | | | ±5 | % |
| Short Circuit Protection | Continuous | | | | |
| Line Regulation | For 1.0% OF Vin | | 1.2 | | % |
| Load Regulation | 5V,9V (10% To 100% F.L) | | | 15 | % |
| Load Regulation | 12~24V (10% To 100% F.L) | | | 10 | % |
| Load Regulation | ±5V,±9V (10% To 100% F.L) | | | 15 | % |
| Load Regulation | ±12~±24V (10% To 100% F.L) | | | 10 | % |

General Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|-----------------------|-----------------------------|---------|---------------|------|-------|
| Isolation Resistance | 500Vdc | 1000 | | | MΩ |
| Switching Frequency | Full load, nominal input | | 100 | | KHz |
| Operating Temperature | | -40 | | +105 | °C |
| Storage Temperature | | -55 | | +125 | °C |
| Humidity | Non Condensing | | | 95 | % |
| Cooling | Free air Convection | | | | |
| Case material | DAP | | | | |
| MTBF | MIL-HDBK-217F @25°C | 3500000 | | | Hours |
| Weight | | | 2.7 | | g |
| Dimensions | | | 19.5x7.1x10.0 | | mm |

Markings and dimensions



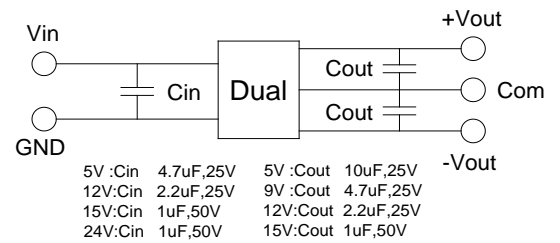
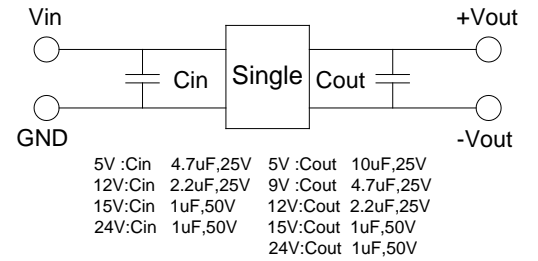
Unit : mm Unless otherwise specified, all tolerances are ±0.25

Part Number

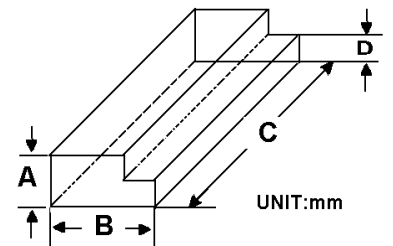
14DB - 05 S 05 N 2W
A B C D E F

A:Series
B:Input Voltage
C:Single(S)Dual(D)
D:Output Voltage
E:Unregulated(N)
F:Output Power

Recommended Test Circuit



Packaging



| Size(mm) | | | |
|----------|-------|-----|------|
| A | B | C | D |
| 9.50 | 16.50 | 522 | 5.00 |

PIN Connection

| PIN | 1 | 2 | 4 | 5 | 6 |
|--------|------|------|-------|--------|-------|
| Single | +Vin | -Vin | -Vout | No Pin | +Vout |
| Dual | +Vin | -Vin | -Vout | Com | +Vout |