



**THE DATASHEET OF
JCD0505D12**



JCD Series



- 2:1 Input Range
- Industry Standard Package
- 1600 VDC Isolation
- Continuous Short Circuit Protection
- -40 °C to +100 °C Operating Temperature
- Single & Dual Outputs
- 3 Year Warranty

Specification

Input

| | |
|--------------------------------|---|
| Input Voltage Range | <ul style="list-style-type: none"> • 5 V (4.5-9 VDC) • 12 V (9-18 VDC) • 24 V (18-36 VDC) • 48 V (36-72 VDC) |
| Input Current | <ul style="list-style-type: none"> • See table |
| Input Reflected Ripple Current | <ul style="list-style-type: none"> • 35 mA rms through 12 μH inductor |
| Input Filter | <ul style="list-style-type: none"> • Pi network |
| Input Surge | <ul style="list-style-type: none"> • 5 V models 15 VDC for 100 ms • 12 V models 24 VDC for 100 ms • 24 V models 40 VDC for 100 ms • 48 V models 80 VDC for 100 ms |

Output

| | |
|--------------------------|--|
| Output Voltage | <ul style="list-style-type: none"> • See table |
| Setpoint Accuracy | <ul style="list-style-type: none"> • $\pm 1\%$ ($\pm 2\%$ for JCD0412/24/48S3V3 & D03 models) |
| Voltage Balance | <ul style="list-style-type: none"> • $\pm 1\%$ ($\pm 2\%$ D03 models) |
| Minimum Load | <ul style="list-style-type: none"> • No minimum load required |
| Line Regulation | <ul style="list-style-type: none"> • $\pm 0.5\%$ |
| Load Regulation | <ul style="list-style-type: none"> • $\pm 0.5\%$ single outputs, $\pm 1.5\%$ for S3V3 & D03 models |
| Cross Regulation | <ul style="list-style-type: none"> • $\pm 5\%$ (see note 1) |
| Ripple & Noise | <ul style="list-style-type: none"> • 60 mV pk-pk, 20 MHz bandwidth. See note 2 |
| Start Up Delay | <ul style="list-style-type: none"> • 20 ms typical for 5 V input models, 500 ms typical for 12/24/48 V input models |
| Transient Response | <ul style="list-style-type: none"> • 3% max deviation, recovery to within 1% in 250 μs (5% & 300 μs for JCD0412/24/48S3V3 & D03 models) for a 25% load change |
| Temperature Coefficient | <ul style="list-style-type: none"> • 0.02%/°C |
| Overload Protection | <ul style="list-style-type: none"> • 150% of full load on 5 V input models only |
| Short Circuit Protection | <ul style="list-style-type: none"> • Indefinite with auto recovery |
| Maximum Capacitive Load | <ul style="list-style-type: none"> • See table |

General

| | |
|-----------------------|--|
| Efficiency | <ul style="list-style-type: none"> • See table |
| Isolation Voltage | <ul style="list-style-type: none"> • 1600 VDC Input to Output • For optional high isolation versions 3500 VDC Input to Output add suffix -H to model number • 1600 VDC Input to Case • 1600 VDC Output to Case |
| Isolation Capacitance | <ul style="list-style-type: none"> • 500 pF typical input to output |
| Isolation Resistance | <ul style="list-style-type: none"> • $10^9 \Omega$ |
| Switching Frequency | <ul style="list-style-type: none"> • 266 kHz typical |
| Power Density | <ul style="list-style-type: none"> • 4 W: 10 W/in³, 5 W: 12.5 W/in³, 6 W: 15 W/in³ |
| MTBF | <ul style="list-style-type: none"> • >1.1 Mhrs to MIL-STD-217F at 25 °C, GB |

Environmental

| | |
|-----------------------|--|
| Operating Temperature | <ul style="list-style-type: none"> • -40 °C to +100 °C (see derating curve) |
| Case Temperature | <ul style="list-style-type: none"> • +100 °C max |
| Storage Temperature | <ul style="list-style-type: none"> • -55 °C to +125 °C |
| Cooling | <ul style="list-style-type: none"> • Convection-cooled |
| Operating Humidity | <ul style="list-style-type: none"> • Up to 95% RH, non-condensing |

EMC

| | |
|--------------------|--|
| Emissions | <ul style="list-style-type: none"> • EN55022 Class A conducted with external components, see application note |
| ESD Immunity | <ul style="list-style-type: none"> • EN61000-4-2, level 3, Perf Criteria B |
| Radiated Immunity | <ul style="list-style-type: none"> • EN61000-4-3, 10 V/m, Perf Criteria A |
| EFT/Burst | <ul style="list-style-type: none"> • EN61000-4-4, level 3 Perf Criteria B* |
| Surge | <ul style="list-style-type: none"> • EN61000-4-5, level 2, Perf Criteria A* |
| Conducted Immunity | <ul style="list-style-type: none"> • EN61000-4-6, 10 Vrms, Perf Criteria B* |
| Magnetic Field | <ul style="list-style-type: none"> • EN61000-4-8, 1 A/m, Perf Criteria B* |

Safety

| | |
|------------------|---|
| Safety Approvals | <ul style="list-style-type: none"> • UL60950-1, CAN/CSA C22.2 No.60950-1, UL62368-1, CE (Meets all applicable directives), UKCA (Meets all applicable legislation) |
|------------------|---|

*External input capacitor required, 220 μ F/100 V

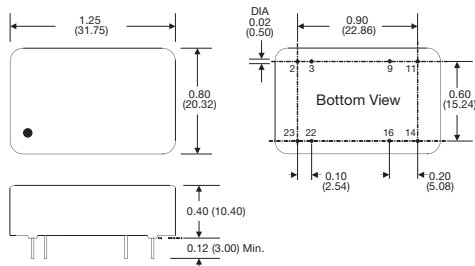
Models and Ratings

| Input Voltage | Output Voltage | Output Current | Input Current ⁽¹⁾ | | Maximum Capacitive Load | Efficiency | Model Number |
|---------------|----------------|----------------|------------------------------|-----------|-------------------------|------------|--------------|
| | | | No Load | Full Load | | | |
| 4.5-9 VDC | 3.3 V | 1200 mA | 25 mA | 1084 mA | 3300 µF | 73% | JCD0405S3V3 |
| | 5.0 V | 800 mA | 25 mA | 1026 mA | 1000 µF | 78% | JCD0405S05 |
| | 12.0 V | 333 mA | 30 mA | 974 mA | 220 µF | 82% | JCD0405S12 |
| | 15.0 V | 266 mA | 30 mA | 973 mA | 100 µF | 82% | JCD0405S15 |
| | ±3.3 V | ±600 mA | 25 mA | 1042 mA | ±680 µF | 76% | JCD0405D03 |
| | ±5.0 V | ±400 mA | 30 mA | 1012 mA | ±470 µF | 79% | JCD0405D05 |
| | ±12.0 V | ±166 mA | 35 mA | 963 mA | ±100 µF | 83% | JCD0405D12 |
| ±15.0 V | ±133 mA | 40 mA | 985 mA | ±47 µF | 81% | JCD0405D15 | |
| 9-18 VDC | 3.3 V | 1200 mA | 30 mA | 445 mA | 680 µF | 74% | JCD0412S3V3 |
| | 5.0 V | 800 mA | 30 mA | 427 mA | 1000 µF | 78% | JCD0412S05 |
| | 9.0 V | 444 mA | 30 mA | 416 mA | 470 µF | 80% | JCD0412S09 |
| | 12.0 V | 333 mA | 30 mA | 406 mA | 100 µF | 82% | JCD0412S12 |
| | 15.0 V | 266 mA | 30 mA | 401 mA | 100 µF | 83% | JCD0412S15 |
| | 24.0 V | 166 mA | 30 mA | 406 mA | 22 µF | 82% | JCD0412S24 |
| | ±3.3 V | ±600 mA | 30 mA | 438 mA | ±680 µF | 76% | JCD0412D03 |
| | ±5.0 V | ±400 mA | 30 mA | 427 mA | ±470 µF | 78% | JCD0412D05 |
| | ±9.0 V | ±220 mA | 30 mA | 416 mA | ±220 µF | 80% | JCD0412D09 |
| | ±12.0 V | ±166 mA | 30 mA | 427 mA | ±47 µF | 78% | JCD0412D12 |
| | ±15.0 V | ±133 mA | 30 mA | 416 mA | ±150 µF | 80% | JCD0412D15 |
| ±24.0 V | ±83 mA | 30 mA | 416 mA | ±10 µF | 80% | JCD0412D24 | |
| 18-36 VDC | 3.3 V | 1200 mA | 20 mA | 216 mA | 1000 µF | 77% | JCD0424S3V3 |
| | 5.0 V | 800 mA | 20 mA | 208 mA | 1000 µF | 80% | JCD0424S05 |
| | 9.0 V | 444 mA | 20 mA | 203 mA | 470 µF | 82% | JCD0424S09 |
| | 12.0 V | 333 mA | 20 mA | 198 mA | 330 µF | 84% | JCD0424S12 |
| | 15.0 V | 266 mA | 20 mA | 203 mA | 330 µF | 82% | JCD0424S15 |
| | 24.0 V | 166 mA | 20 mA | 200 mA | 1000 µF | 83% | JCD0424S24 |
| | ±3.3 V | ±600 mA | 20 mA | 216 mA | ±1000 µF | 77% | JCD0424D03 |
| | ±5.0 V | ±400 mA | 20 mA | 208 mA | ±330 µF | 80% | JCD0424D05 |
| | ±9.0 V | ±220 mA | 20 mA | 200 mA | ±220 µF | 83% | JCD0424D09 |
| | ±12.0 V | ±166 mA | 20 mA | 200 mA | ±68 µF | 83% | JCD0424D12 |
| | ±15.0 V | ±133 mA | 20 mA | 203 mA | ±220 µF | 82% | JCD0424D15 |
| ±24.0 V | ±83 mA | 20 mA | 210 mA | ±47 µF | 79% | JCD0424D24 | |
| 36-72 VDC | 3.3 V | 1200 mA | 15 mA | 108 mA | 1000 µF | 76% | JCD0448S3V3 |
| | 5.0 V | 800 mA | 15 mA | 104 mA | 1000 µF | 80% | JCD0448S05 |
| | 9.0 V | 444 mA | 15 mA | 100 mA | 470 µF | 83% | JCD0448S09 |
| | 12.0 V | 333 mA | 15 mA | 99 mA | 330 µF | 84% | JCD0448S12 |
| | 15.0 V | 266 mA | 15 mA | 102 mA | 68 µF | 81% | JCD0448S15 |
| | 24.0 V | 166 mA | 15 mA | 98 mA | 68 µF | 85% | JCD0448S24 |
| | ±3.3 V | ±600 mA | 15 mA | 109 mA | ±1000 µF | 76% | JCD0448D03 |
| | ±5.0 V | ±400 mA | 15 mA | 104 mA | ±470 µF | 80% | JCD0448D05 |
| | ±9.0 V | ±220 mA | 15 mA | 100 mA | ±220 µF | 83% | JCD0448D09 |
| | ±12.0 V | ±166 mA | 15 mA | 100 mA | ±220 µF | 83% | JCD0448D12 |
| | ±15.0 V | ±133 mA | 15 mA | 100 mA | ±47 µF | 83% | JCD0448D15 |
| | ±24.0 V | ±83 mA | 15 mA | 105 mA | ±100 µF | 79% | JCD0448D24 |

Notes

- When one output is set at 100% load and the other varies between 25% & 100% load.
- Measured with 20 MHz bandwidth and 1 µF ceramic capacitor across output rails.
- Input current specified at nominal 5 V, 12 V, 24 V or 48 V input.
- For optional 3500 VDC isolation add suffix -H to part number e.g. JCD0424S12-H

Mechanical Details



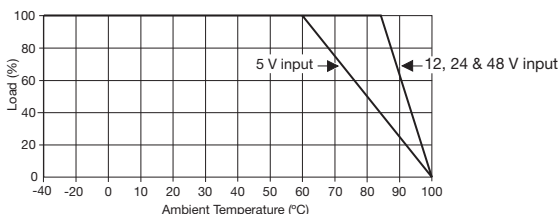
| Pin | Single | Dual |
|-----|--------|--------|
| 2 | -Vin | -Vin |
| 3 | -Vin | -Vin |
| 9 | No Pin | Common |
| 11 | N.C. | -Vout |
| 14 | +Vout | +Vout |
| 16 | -Vout | Common |
| 22 | +Vin | +Vin |
| 23 | +Vin | +Vin |

Notes

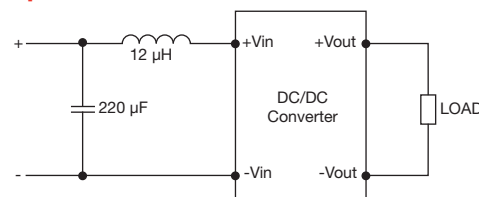
- All dimensions are in inches (mm)
- Weight: 0.04 lbs (18 g) approx.
- Pin diameter: 0.02 ±0.002 (0.5 ±0.005)
- Pin pitch and length tolerance: ±0.014 (±0.35)
- Case tolerance: ±0.02 (±0.5)
- Package: 24 pin DIL nickel-coated copper

Application Notes

Derating Curve



Input Filter



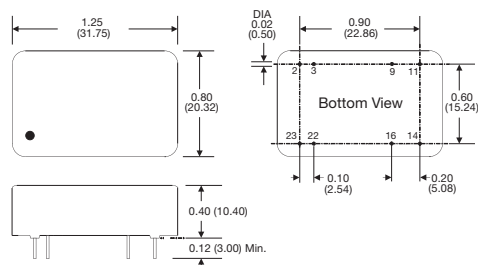
Models and Ratings

| Input Voltage | Output Voltage | Output Current | Input Current ⁽¹⁾ | | Maximum Capacitive Load | Efficiency | Model Number ⁽⁴⁾ |
|---------------|----------------|----------------|------------------------------|-----------|-------------------------|------------|-----------------------------|
| | | | No Load | Full Load | | | |
| 4.5-9 VDC | 3.3 V | 1300 mA | 25 mA | 1159 mA | 1000 µF | 74% | JCD0505S3V3 |
| | 5.0 V | 1000 mA | 25 mA | 1298 mA | 1000 µF | 77% | JCD0505S05 |
| | 12.0 V | 417 mA | 30 mA | 1220 mA | 330 µF | 82% | JCD0505S12 |
| | 15.0 V | 333 mA | 30 mA | 1218 mA | 220 µF | 82% | JCD0505S15 |
| | ±3.3 V | ±750 mA | 25 mA | 1302 mA | ±680 µF | 76% | JCD0505D03 |
| | ±5.0 V | ±500 mA | 30 mA | 1265 mA | ±330 µF | 79% | JCD0505D05 |
| | ±12.0 V | ±208 mA | 35 mA | 1217 mA | ±100 µF | 82% | JCD0505D12 |
| | ±15.0 V | ±167 mA | 40 mA | 1221 mA | ±47 µF | 82% | JCD0505D15 |
| 9-18 VDC | 3.3 V | 1300 mA | 30 mA | 483 mA | 1000 µF | 74% | JCD0512S3V3 |
| | 5.0 V | 1000 mA | 30 mA | 541 mA | 1000 µF | 77% | JCD0512S05 |
| | 9.0 V | 555 mA | 30 mA | 520 mA | 470 µF | 80% | JCD0512S09 |
| | 12.0 V | 417 mA | 30 mA | 508 mA | 330 µF | 82% | JCD0512S12 |
| | 15.0 V | 333 mA | 30 mA | 508 mA | 100 µF | 82% | JCD0512S15 |
| | 24.0 V | 208 mA | 30 mA | 508 mA | 68 µF | 82% | JCD0512S24 |
| | ±3.3 V | ±750 mA | 30 mA | 595 mA | ±1000 µF | 70% | JCD0512D03 |
| | ±5.0 V | ±500 mA | 30 mA | 541 mA | ±1000 µF | 77% | JCD0512D05 |
| | ±9.0 V | ±278 mA | 30 mA | 527 mA | ±330 µF | 79% | JCD0512D09 |
| | ±12.0 V | ±208 mA | 30 mA | 520 mA | ±47 µF | 80% | JCD0512D12 |
| | ±15.0 V | ±167 mA | 30 mA | 527 mA | ±47 µF | 79% | JCD0512D15 |
| | ±24.0 V | ±104 mA | 30 mA | 514 mA | ±10 µF | 81% | JCD0512D24 |
| 18-36 VDC | 3.3 V | 1300 mA | 20 mA | 239 mA | 1000 µF | 75% | JCD0524S3V3 |
| | 5.0 V | 1000 mA | 20 mA | 261 mA | 1000 µF | 80% | JCD0524S05 |
| | 9.0 V | 555 mA | 20 mA | 254 mA | 470 µF | 82% | JCD0524S09 |
| | 12.0 V | 417 mA | 20 mA | 251 mA | 1000 µF | 83% | JCD0524S12 |
| | 15.0 V | 333 mA | 20 mA | 248 mA | 220 µF | 84% | JCD0524S15 |
| | 24.0 V | 208 mA | 20 mA | 248 mA | 1000 µF | 84% | JCD0524S24 |
| | ±3.3 V | ±750 mA | 20 mA | 274 mA | ±470 µF | 76% | JCD0524D03 |
| | ±5.0 V | ±500 mA | 20 mA | 263 mA | ±680 µF | 79% | JCD0524D05 |
| | ±9.0 V | ±278 mA | 20 mA | 251 mA | ±220 µF | 83% | JCD0524D09 |
| | ±12.0 V | ±208 mA | 20 mA | 251 mA | ±220 µF | 83% | JCD0524D12 |
| | ±15.0 V | ±167 mA | 20 mA | 251 mA | ±22 µF | 83% | JCD0524D15 |
| | ±24.0 V | ±104 mA | 20 mA | 254 mA | ±22 µF | 82% | JCD0524D24 |
| 36-72 VDC | 3.3 V | 1300 mA | 12 mA | 117 mA | 1000 µF | 76% | JCD0548S3V3 |
| | 5.0 V | 1000 mA | 12 mA | 130 mA | 1000 µF | 80% | JCD0548S05 |
| | 9.0 V | 555 mA | 12 mA | 124 mA | 100 µF | 84% | JCD0548S09 |
| | 12.0 V | 417 mA | 12 mA | 132 mA | 470 µF | 80% | JCD0548S12 |
| | 15.0 V | 333 mA | 12 mA | 127 mA | 330 µF | 82% | JCD0548S15 |
| | 24.0 V | 208 mA | 12 mA | 122 mA | 220 µF | 85% | JCD0548S24 |
| | ±3.3 V | ±750 mA | 12 mA | 140 mA | ±1000 µF | 74% | JCD0548D03 |
| | ±5.0 V | ±500 mA | 12 mA | 130 mA | ±470 µF | 80% | JCD0548D05 |
| | ±9.0 V | ±278 mA | 12 mA | 127 mA | ±220 µF | 82% | JCD0548D09 |
| | ±12.0 V | ±208 mA | 12 mA | 124 mA | ±100 µF | 84% | JCD0548D12 |
| | ±15.0 V | ±167 mA | 12 mA | 128 mA | ±220 µF | 81% | JCD0548D15 |
| | ±24.0 V | ±104 mA | 12 mA | 128 mA | ±22 µF | 81% | JCD0548D24 |

Notes

- When one output is set at 100% load and the other varies between 25% & 100% load.
- Measured with 20 MHz bandwidth and 1 µF ceramic capacitor across output rails.
- Input current specified at nominal 5 V, 12 V, 24 V or 48 V input.
- For optional 3500 VDC isolation add suffix -H to part number e.g. JCD0524S12-H

Mechanical Details



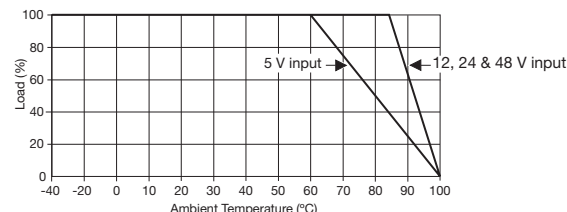
| Pin | Single | Dual |
|-----|--------|--------|
| 2 | -Vin | -Vin |
| 3 | -Vin | -Vin |
| 9 | No Pin | Common |
| 11 | N.C. | -Vout |
| 14 | +Vout | +Vout |
| 16 | -Vout | Common |
| 22 | +Vin | +Vin |
| 23 | +Vin | +Vin |

Notes

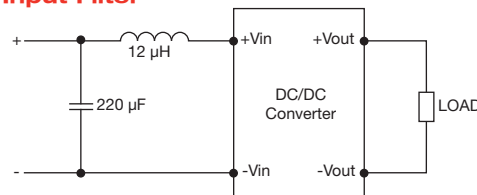
- All dimensions are in inches (mm)
- Weight: 0.04 lbs (18 g) approx.
- Pin diameter: 0.02 ±0.002 (0.5 ±0.005)
- Pin pitch and length tolerance: ±0.014 (±0.35)
- Case tolerance: ±0.02 (±0.5)
- Package: 24 pin DIL nickel-coated copper

Application Notes

Derating Curve



Input Filter



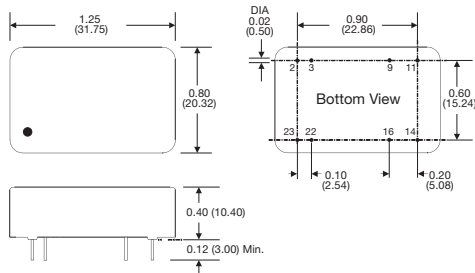
Models and Ratings

| Input Voltage | Output Voltage | Output Current | Input Current ⁽¹⁾ | | Maximum Capacitive Load | Efficiency | Model Number ⁽⁴⁾ |
|---------------|----------------|----------------|------------------------------|-----------|-------------------------|------------|-----------------------------|
| | | | No Load | Full Load | | | |
| 4.5-9VDC | 3.3 V | 1400 mA | 25 mA | 1232 mA | 1000 µF | 75% | JCD0605S3V3 |
| | 5.0 V | 1200 mA | 25 mA | 1558 mA | 1000 µF | 77% | JCD0605S05 |
| | 12.0 V | 500 mA | 25 mA | 1445 mA | 330 µF | 83% | JCD0605S12 |
| | 15.0 V | 400 mA | 30 mA | 1445 mA | 220 µF | 83% | JCD0605S15 |
| | ±3.3 V | ±909 mA | 25 mA | 1578 mA | ±680 µF | 76% | JCD0605D03 |
| | ±5.0 V | ±600 mA | 25 mA | 1500 mA | ±330 µF | 80% | JCD0605D05 |
| | ±12.0 V | ±250 mA | 35 mA | 1428 mA | ±100 µF | 84% | JCD0605D12 |
| | ±15.0 V | ±200 mA | 40 mA | 1428 mA | ±47 µF | 84% | JCD0605D15 |
| 9-18VDC | 3.3 V | 1400 mA | 30 mA | 520 mA | 220 µF | 74% | JCD0612S3V3 |
| | 5.0 V | 1200 mA | 30 mA | 649 mA | 1000 µF | 77% | JCD0612S05 |
| | 9.0 V | 666 mA | 30 mA | 632 mA | 680 µF | 79% | JCD0612S09 |
| | 12.0 V | 500 mA | 30 mA | 617 mA | 1000 µF | 81% | JCD0612S12 |
| | 15.0 V | 400 mA | 30 mA | 604 mA | 100 µF | 82% | JCD0612S15 |
| | 24.0 V | 250 mA | 30 mA | 617 mA | 100 µF | 81% | JCD0612S24 |
| | ±3.3 V | ±909 mA | 30 mA | 675 mA | ±1000 µF | 74% | JCD0612D03 |
| | ±5.0 V | ±600 mA | 30 mA | 657 mA | ±680 µF | 76% | JCD0612D05 |
| | ±9.0 V | ±333 mA | 30 mA | 617 mA | ±22 µF | 81% | JCD0612D09 |
| | ±12.0 V | ±250 mA | 30 mA | 632 mA | ±330 µF | 79% | JCD0612D12 |
| | ±15.0 V | ±200 mA | 30 mA | 625 mA | ±100 µF | 80% | JCD0612D15 |
| | ±24.0 V | ±125 mA | 30 mA | 625 mA | ±10 µF | 80% | JCD0612D24 |
| 18-36VDC | 3.3 V | 1400 mA | 20 mA | 256 mA | 1000 µF | 75% | JCD0624S3V3 |
| | 5.0 V | 1200 mA | 20 mA | 313 mA | 1000 µF | 80% | JCD0624S05 |
| | 9.0 V | 666 mA | 20 mA | 301 mA | 680 µF | 83% | JCD0624S09 |
| | 12.0 V | 500 mA | 20 mA | 301 mA | 1000 µF | 83% | JCD0624S12 |
| | 15.0 V | 400 mA | 20 mA | 301 mA | 100 µF | 83% | JCD0624S15 |
| | 24.0 V | 250 mA | 20 mA | 294 mA | 470 µF | 85% | JCD0624S24 |
| | ±3.3 V | ±909 mA | 20 mA | 328 mA | ±1000 µF | 76% | JCD0624D03 |
| | ±5.0 V | ±600 mA | 20 mA | 308 mA | ±680 µF | 81% | JCD0624D05 |
| | ±9.0 V | ±333 mA | 20 mA | 301 mA | ±220 µF | 83% | JCD0624D09 |
| | ±12.0 V | ±250 mA | 20 mA | 301 mA | ±470 µF | 83% | JCD0624D12 |
| | ±15.0 V | ±200 mA | 20 mA | 301 mA | ±100 µF | 83% | JCD0624D15 |
| | ±24.0 V | ±125 mA | 20 mA | 304 mA | ±100 µF | 82% | JCD0624D24 |
| 36-72VDC | 3.3 V | 1400 mA | 12 mA | 128 mA | 2200 µF | 75% | JCD0648S3V3 |
| | 5.0 V | 1200 mA | 12 mA | 156 mA | 1000 µF | 80% | JCD0648S05 |
| | 9.0 V | 666 mA | 12 mA | 148 mA | 1000 µF | 84% | JCD0648S09 |
| | 12.0 V | 500 mA | 12 mA | 148 mA | 470 µF | 84% | JCD0648S12 |
| | 15.0 V | 400 mA | 12 mA | 154 mA | 1000 µF | 81% | JCD0648S15 |
| | 24.0 V | 250 mA | 12 mA | 147 mA | 220 µF | 85% | JCD0648S24 |
| | ±3.3 V | ±909 mA | 12 mA | 164 mA | ±1000 µF | 76% | JCD0648D03 |
| | ±5.0 V | ±600 mA | 12 mA | 156 mA | ±680 µF | 80% | JCD0648D05 |
| | ±9.0 V | ±333 mA | 12 mA | 150 mA | ±680 µF | 83% | JCD0648D09 |
| | ±12.0 V | ±250 mA | 12 mA | 148 mA | ±330 µF | 84% | JCD0648D12 |
| | ±15.0 V | ±200 mA | 12 mA | 152 mA | ±330 µF | 82% | JCD0648D15 |
| | ±24.0 V | ±125 mA | 12 mA | 150 mA | ±150 µF | 83% | JCD0648D24 |

Notes

- When one output is set at 100% load and the other varies between 25% & 100% load.
- Measured with 20 MHz bandwidth and 1 µF ceramic capacitor across output rails.
- Input current specified at nominal 5 V, 12 V, 24 V or 48 V input.
- For optional 3500 VDC isolation add suffix -H to part number e.g. JCD0624S12-H

Mechanical Details



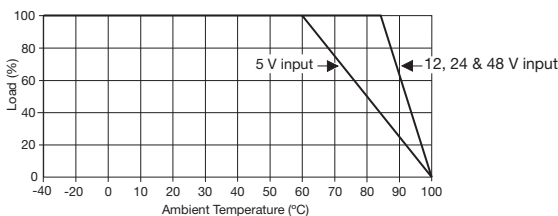
| Pin | Single | Dual |
|-----|--------|--------|
| 2 | -Vin | -Vin |
| 3 | -Vin | -Vin |
| 9 | No Pin | Common |
| 11 | N.C. | -Vout |
| 14 | +Vout | +Vout |
| 16 | -Vout | Common |
| 22 | +Vin | +Vin |
| 23 | +Vin | +Vin |

Notes

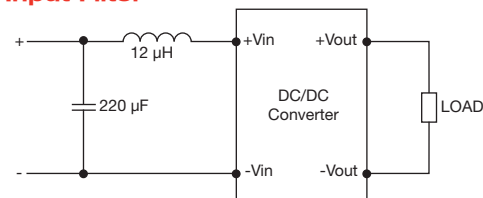
- All dimensions are in inches (mm)
- Weight: 0.04 lbs (18 g) approx.
- Pin diameter: 0.02 ±0.002 (0.5 ±0.005)
- Pin pitch and length tolerance: ±0.014 (±0.35)
- Case tolerance: ±0.02 (±0.5)
- Package: 24 pin DIL nickel-coated copper

Application Notes

Derating Curve





Input Filter









Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View JCD0505D12 on WIN SOURCE](#)
-  [XP Power Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management