

JD10 Series



Features :

- 2:1 & 4:1, 9V ~ 75V Input Range
- Regulated Output
- High Efficiency
- Short Circuit Protection
- Over Voltage Protection
- 24Pin DIP with Industry Standard Package and Pinout
- 2 Years Warranty



Model List

Model Number	Input Voltage VDC	Output Voltage VDC	Output Current (mA)	Efficiency @Max.Load %(Typ.)
JD10-12S3V3	9~18	3.3	2000	79
JD10-12S05V		5	2000	75
JD10-12S12V		12	830	81
JD10-12S15V		15	660	81
JD10-12D05V		±5	±1000	75
JD10-12D12V		±12	±410	80
JD10-12D15V		±15	±330	80
JD10-24S3V3	18~36	3.3	2000	71
JD10-24S05V		5	2000	78
JD10-24S12V		12	830	82
JD10-24S15V		15	660	83
JD10-24D05V		±5	±1000	79
JD10-24D12V		±12	±410	82
JD10-24D15V		±15	±330	84
JD10-48S3V3	36~75	3.3	2000	73
JD10-48S05V		5	2000	82
JD10-48S12V		12	830	82
JD10-48S15V		15	660	83
JD10-48D05V		±5	±1000	77
JD10-48D12V		±12	±410	82
JD10-48D15V		±15	±330	83
JD10-412S3V3	9~36	3.3	2000	71
JD10-412S05V		5	2000	75
JD10-412S12V		12	830	78
JD10-412S15V		15	660	78
JD10-412D05V		±5	±1000	75
JD10-412D12V		±12	±410	79
JD10-412D15V		±15	±330	80
JD10-424S3V3	18~75	3.3	2000	73
JD10-424S05V		5	2000	83
JD10-424S12V		12	830	81
JD10-424S15V		15	660	81
JD10-424D05V		±5	±1000	77
JD10-424D12V		±12	±410	80
JD10-424D15V		±15	±330	80

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Input Specifications

Input Filter		C Type
Surge Voltage (100 ms max.)	12Vin Models:	25V max.
	24Vin Models:	50V max.
	48Vin Models:	100V max.

Output Specifications

Output Power		10W max.
Voltage Set Accuracy		±2%
Line Regulation (Low Line, High Line at Full Load)		±0.5%
Load Regulation (0% to 100% Full Load)	Single:	±0.5%
	Dual:	±2%
Ripple and Noise (20MHz Bandwidth)	3.3, 5VDC Models:	80mVpk-pk max.
	Others Models:	1%Voutpk-pk max.
Short Circuit Protection		Indefinite (Automatic Recovery)
Minimum Load		0%
Capacitive Load	3.3 Vout Models:	4200µF max.
	5 Vout Models:	3200µF max.
	12 Vout Models:	600µF max.
	15 Vout Models:	390µF max.
	±5 Vout Models:	1800µF max. (Each Output)
	±12 Vout Models:	300µF max. (Each Output)
	±15 Vout Models:	200µF max. (Each Output)

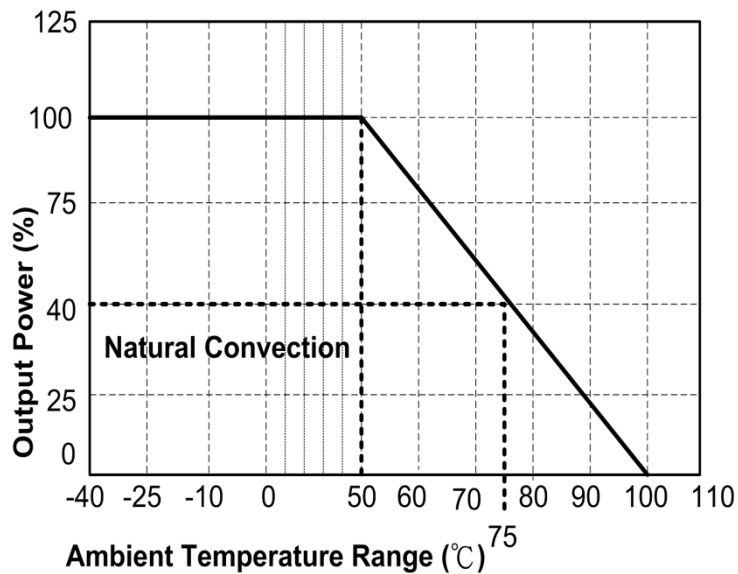
Environmental Specifications

Operating Temperature Range (Ambient)		-40°C to +75°C (with Derating)
Maximum Case Temperature		+95°C
Storage Temperature Range		-55°C to +115°C
Cooling		Free-air Convection
Temperature Coefficient		±0.05%/°C max.
Humidity		95%

General Specifications

Input Voltage Variation, dv/dt		Max. 5V
Over Load Protection (% of Full Load at Nominal Vin)		>110% typ.
Overvoltage Protection (Single)		Zener Diode Clamp
MTBF(MIL-HDBK-217F, at +25°C, Ground Benign)		>7×10 ⁵ Hours
Isolation Voltage (60 sec.)	Input/Output:	1500VDC
Isolation Capacitance	Input/Output:	470pF typ.
Isolation Resistance	Input/Output(500VDC):	>1000Mohm
Switching Frequency (Fixed)		300kHz typ. (Pulse Width Modulation PWM)
Safety Standards		CE Class A, UL Compliance
Conducted Noise		EN55022 EN55024

Derating Graph

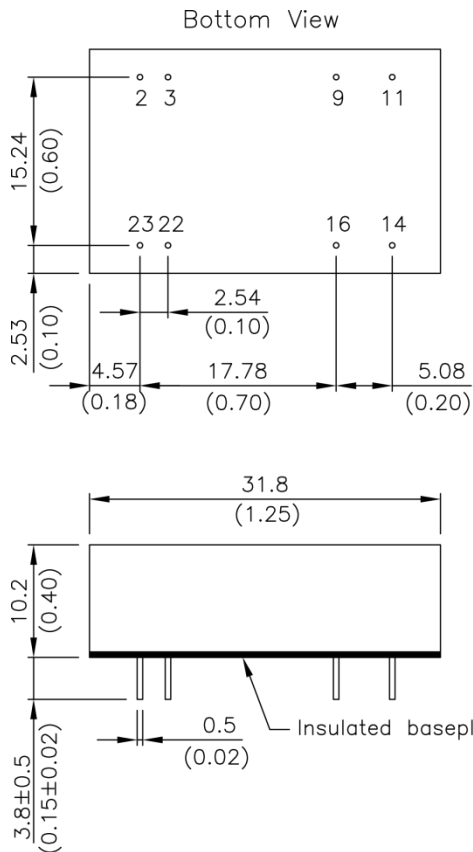


If you need more detailed information,
please contact us via email at sales@mail.longsun.tw

Physical Specifications

Case Material	Nickel-Coated Copper with Non-Conductive Base
Baseplate Material	Non-Conductive Base FR4
Potting	Flammability to UL94V-0
Dimensions	1.25" x 0.8" x 0.4"
Weight	18g(0.63oz)
Soldering Temperature	max. 260°C/10s
Environmental Compliance Certification	Reach RoHS

Outline Dimensions



Pin Connections

Pin	Single	Dual
22&23	+Vin	+Vin
2&3	-Vin	-Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common

Dimensions in [mm], () = Inch

Notes

- All specifications are typical at $T_a=25^{\circ}\text{C}$, nominal input voltage, resistive load and rated output current unless otherwise noted.
- All specifications are subject to change without notice.
- Typical value is measured at nominal input voltage and no load.
- Maximum value is measured at nominal input voltage and full load.
- Typical value is measured at nominal input voltage and full load.

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