

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.)
JF03-05S3V3	4.5~9	3.3	600	69
JF03-05S05V		5	600	70
JF03-05S12V		12	250	71
JF03-05S15V		15	200	71
JF03-05D05V		±5	±300	73
JF03-05D12V		±12	±125	73
JF03-05D15V		±15	±100	74
JF03-12S3V3	9~18	3.3	600	70
JF03-12S05V		5	600	73
JF03-12S12V		12	250	76
JF03-12S15V		15	200	78
JF03-12D05V		±5	±300	70
JF03-12D12V		±12	±125	73
JF03-12D15V		±15	±100	74
JF03-24S3V3	18~36	3.3	600	71
JF03-24S05V		5	600	76
JF03-24S12V		12	250	77
JF03-24S15V		15	200	77
JF03-24D05V		±5	±300	73
JF03-24D12V		±12	±125	75
JF03-24D15V		±15	±100	75
JF03-48S3V3	36~75	3.3	600	72
JF03-48S05V		5	600	74
JF03-48S12V		12	250	77
JF03-48S15V		15	200	78
JF03-48D05V		±5	±300	72
JF03-48D12V		±12	±125	75
JF03-48D15V		±15	±100	75
JF03-412S3V3	9~36	3.3	600	69
JF03-412S05V		5	600	72
JF03-412S12V		12	250	75
JF03-412S15V		15	200	75
JF03-412D05V		±5	±300	68
JF03-412D12V		±12	±125	72
JF03-412D15V		±15	±100	73
JF03-424S3V3	18~75	3.3	600	71
JF03-424S05V		5	600	75
JF03-424S12V		12	250	75
JF03-424S15V		15	200	76
JF03-424D05V		±5	±300	72
JF03-424D12V		±12	±125	74
JF03-424D15V		±15	±100	74

V1.0.1 2013

Input Specifications

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

Output Specifications

Output Power		3W 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:	3000μF max.
	5 Vout Models:	1400μF max.
	12 Vout Models:	620μF max.
	15 Vout Models:	410μF max.
	±5 Vout Models:	680μF max. (Each Output)
	±12 Vout Models:	300μF max. (Each Output)
	±15 Vout Models:	210μF max. (Each Output)

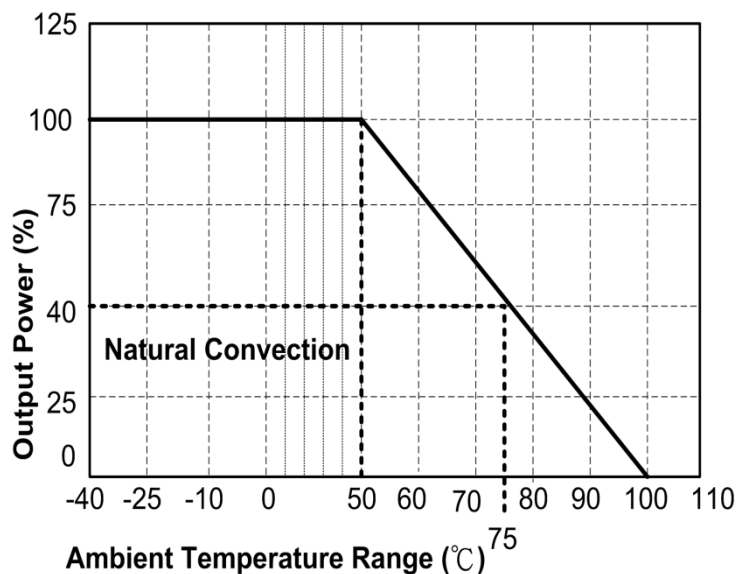
Environmental Specifications

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)		>8×10 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

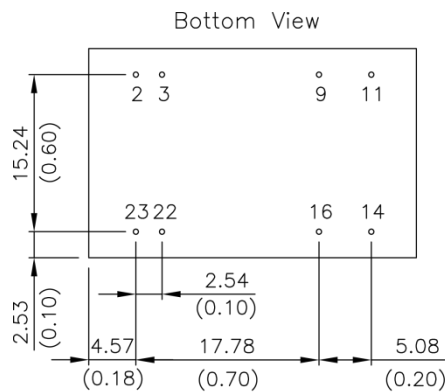


If you need more detailed information,
please contact us via email at sales@mail.longsun.tw

Physical Specifications

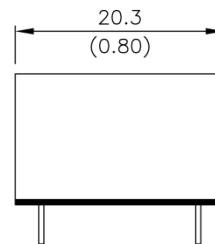
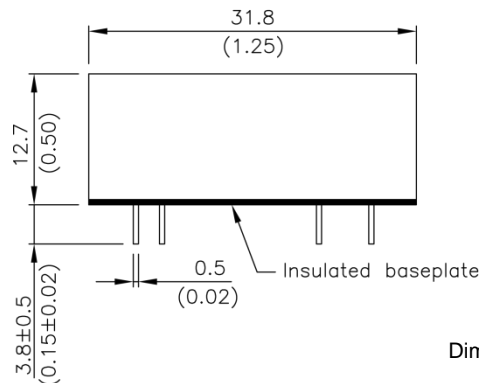
Case Material	Nickel-Coated Copper with Non-Conductive Base
Baseplate Material	Non-Conductive Base FR4
Potting	Flammability to UL94V-0
Dimension	1.25"x0.8"x0.5"
Weight	18g(0.34oz)
Soldering Temperature	max. 260°C/10s
Environmental Compliance Certification	Reach RoHS

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

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

V1.0.1 2013