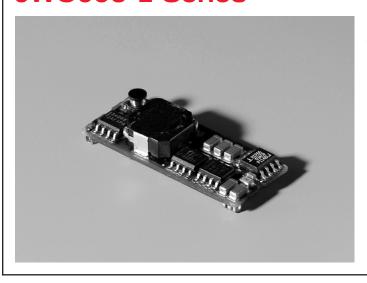
Non-Isolated DC/DC Converters

6 Amps **JWC006-L Series**





High Efficiency

Small Footprint

Parallelable/Current Sharing

Single Control Pin

Safety Approvals UL, cUL, TÜV

Surface Mount

Specification -

Input

Input Voltage Range • 3.3 V (3.0 V to 3.6 V) or 5.0 V (4.5 V to 5.5 V)

Input Current 5.5 A at 3.3 V, 5.0 A at 5.0 V

Start-Up Time <10 ms

Remote On/Off Open (logic high) = ON, Ground (logic low) = OFF

Input Reflected <250 mV pk-pk

Ripple (V)

Input Reflected Ripple (I)

100 mA pk-pk

Output

Output Voltage Range • 1.5 V to 3.3 V - See Table

Output Voltage Adj. ±10% Line Regulation See Tables See Tables Load Regulation See Tables

Output Voltage Accuracy

Ripple & Noise

100 mV pk-pk max for 5.0 V in. 80 mV pk-pk max for 3.3 V in

Max deviation of ±10% of Vout Transient Response

settling to within 90% nominal in <50 µs for 3 A step load

change

Overcurrent Protection

Short Circuit Protection

Operates at 7.5 to 10.0 A

Operates in Hiccup mode

General Efficiency

See Table Isolation Voltage Non-Isolated

1.300" x 0.530" x 0.248" Size

Weight

1,500 000 hours calculated MTBF

to Bellcore

Environmental

Operating 0 °C to +80 °C (See Derating Chart) Temperature full power to +40°C

Cooling See derating curve

EMC & Safety

Safety Approvals Approved to UL 60950,

IEC 60950 and CSA 60950

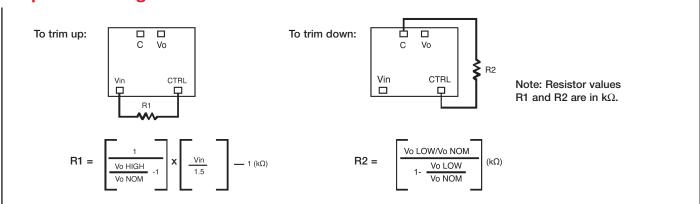


OUTPUT VOLTAGE & CURRENT RATINGS JWC006-L							
Input	Output Voltage(1)			Output Current		Efficiency	Model
Voltage	Minimum	Nominal(1)	Maximum	Minimum	Maximum	1	Number
	1.455 V	1.5 V	1.545 V	0.0 A	6.0 A	80%	JWC00603S1V5-L
3.3 V	1.746 V	1.8 V	1.854 V			83%	JWC00603S1V8-L
	1.940 V	2.0 V	2.060 V			85%	JWC00603S2V0-L
	2.425 V	2.5 V	2.575 V			88%	JWC00603S2V5-L
	1.455 V	1.5 V	1.545 V	0.0 A	6.0 A	80%	JWC00605S1V5-L
	1.746 V	1.8 V	1.854 V			82%	JWC00605S1V8-L
5.0 V	1.940 V	2.0 V	2.060 V			84%	JWC00605S2V0-L
	2.425 V	2.5 V	2.575 V			88%	JWC00605S2V5-L
	3.200 V	3.3 V	3.400 V			91%	JWC00605S3V3-L

Notes

- 1. Output voltage includes initial setting, input voltage variation, load variation and temperature variation.
- 2. For parallel operation (4 units max), connect each control pin together but care must be taken to ensure each trace resistance to the load is approximately the same.

Output Trimming



Safety Approvals

These modules are approved to UL60950 3rd edition, CSA60950 3rd edition and IEC60950. These modules are not provided with an internal fusing. To achieve maximum safety and system protection always use an input line fuse. It is recommended to use a maximum 10 A normal blow fuse on the ungrounded lead.

Mechanical Details

