



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### 6 Watts

- Regulated Single & Dual Output
- Ultra Wide 4:1 Input Range
- DIP16 Package
- 1500 VDC Isolation
- Operating Temperature -40 °C to +105 °C
- Full Power to +75 °C
- ITE Safety Approvals
- High Power Density
- Metal Case
- 3 Year Warranty



#### Dimensions:

**JWE06:**  
0.94 x 0.54 x 0.31" (23.8 x 13.7 x 8.0 mm)

### Models & Ratings

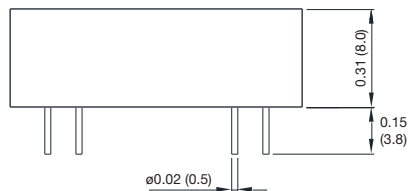
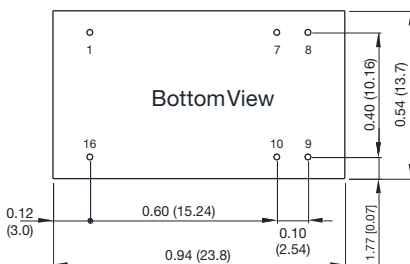
Input voltage	Output voltage	Output current	Input current <sup>(1)</sup>		Max. capacitive load <sup>(2)</sup>	Efficiency	Model number
			No load	Full load			
9-36V	3.3 V	1500 mA	8 mA	265 mA	680 µF	78%	JWE0624S3V3
	5.0 V	1200 mA		305 mA	680 µF	82%	JWE0624S05
	12.0 V	500 mA		295 mA	330 µF	86%	JWE0624S12
	15.0 V	400 mA		295 mA	330 µF	86%	JWE0624S15
	24.0 V	250 mA		290 mA	150 µF	87%	JWE0624S24
	±12.0 V	±250 mA		295 mA	±50 µF	86%	JWE0624D12
	±15.0 V	±200 mA		290 mA	±150 µF	87%	JWE0624D15
	18-75V	3.3 V		1500 mA	6 mA	130 mA	680 µF
5.0 V		1200 mA	155 mA	680 µF		82%	JWE0648S05
12.0 V		500 mA	145 mA	330 µF		86%	JWE0648S12
15.0 V		400 mA	145 mA	330 µF		86%	JWE0648S15
24.0 V		250 mA	145 mA	150 µF		87%	JWE0648S24
±12.0 V		±250 mA	145 mA	±150 µF		87%	JWE0648D12
±15.0 V		±200 mA	145 mA	±150 µF		87%	JWE0648D15

### Notes

1. Input currents measured at nominal input voltage.

2. Maximum capacitive load is per output.

### Mechanical Details



Pin Connections		
Pin	Single	Dual
1	-Vin	-Vin
7	No Connection	No Connection
8	No Connection	Common
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin

### Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage Range	9.0		36	VDC	24 V nominal
	18.0		75	VDC	48 V nominal
Input Filter	Internal Pi type				
Undervoltage Lockout	ON at $\geq 9$ V, OFF at $< 8$ V				24 V models
	ON at $\geq 18$ V, OFF at $< 16$ V				48 V models
Input Surge			25	VDC for 1 s	12 V models
			50		24 V models
			100		48 V models

### Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	3.3		30	VDC	See Models and Ratings table
Initial Set Accuracy			$\pm 2.0$	%	At full load
Output Voltage Balance		$\pm 1.0$	$\pm 2.0$	%	For dual output with balanced loads
Minimum Load				A	No minimum load required
Line Regulation		$\pm 0.2$	$\pm 0.8$	%	From minimum to maximum input at full load
Load Regulation		$\pm 0.5$	$\pm 1.0$	%	From 0 to full load
Cross Regulation			$\pm 5.0$	%	On dual output models when one load is varied between 25% and 100% and other is fixed at 100%
Transient Response		3	5	% deviation	Recovery within 1% in less than 250 $\mu$ s for a 25% load change.
Ripple & Noise			55	mV pk-pk	20 MHz bandwidth. Measured using 0.47 $\mu$ F ceramic capacitor.
Overload Protection			150	%	
Short Circuit Protection					Continuous Trip & Restart (Hiccup mode), with auto recovery
Maximum Capacitive Load					See Models and Ratings table
Temperature Coefficient			0.02	%/ $^{\circ}$ C	

### General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		88		%	See Models and Ratings table
Isolation: Input to Output	1500/1800			VDC	60 s/1 s
Isolation Resistance	$10^9$			$\Omega$	At 500 VDC
Isolation Capacitance		500		pF	
Switching Frequency		370		kHz	
Power Density			38.0	W/in <sup>3</sup>	
Mean Time Between Failure				MHrs	MIL-HDBK-217F, +25 $^{\circ}$ C GB
Weight		0.013 (6.1)		lb (g)	

### Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-40		+105	$^{\circ}$ C	See Derating Curve.
Storage Temperature	-50		+125	$^{\circ}$ C	
Case Temperature			+105	$^{\circ}$ C	
Humidity			95	%RH	Non-condensing
Cooling					Natural convection
Case Flammability	UL 94V-0 Rated				

### EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55032	Class A	No filter required



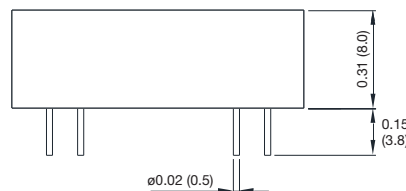
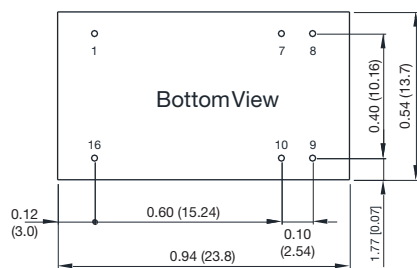
### EMC: Immunity

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
ESD	EN61000-4-2	±8 kV air discharge, ±6 kV contact	A	
Radiated	EN61000-4-3	10 V/m	A	
EFT/Burst	EN61000-4-4	±2 kV	A	With external capacitor, suggested part is CHEMI-CON KY 330µF/100V
Surge	EN61000-4-5	±1 kV	A	With external capacitor, suggested part is CHEMI-CON KY 330µF/100V
Conducted	EN61000-4-6	10 V rms	A	
Magnetic Fields	EN61000-4-8	100 A/m	A	

### Safety Approvals

Safety Agency	Safety Standard	Notes & Conditions
CB Report	IEC60950-1	Information Technology
UL	UL/cUL60950-1	Information Technology

### Mechanical Details



Pin Connections		
Pin	Single	Dual
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7	No Connection	No Connection
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10	-Vout	-Vout
16	+Vin	+Vin

### Notes

- All dimensions are in inches (mm)
- Weight: 0.013 lbs (6.1 g) approx.
- Tolerance: X.XX±0.01 (X.X±0.25)  
X.XXX±0.005 (X.XX±0.13)
- Pin Tolerance: ±0.002 (±0.05)

### Application Notes

#### Derating Curve

