



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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3 Watt

- 4:1 Input Range
- DIP 24 Plastic Case
- Operating Temperature -40 °C to +100 °C
- Single & Dual Outputs
- 1500 VDC Isolation, 3000 VDC Option
- Fully Regulated Output
- No Minimum Load Required
- 3 Year Warranty



Dimensions:

JTE:
1.25 x 0.80 x 0.40" (31.75 x 20.32 x 10.16 mm)

Models & Ratings

Input Voltage	Output Voltage	Output Current	Input Current ⁽¹⁾		Maximum Capacitive Load ⁽²⁾	Efficiency	Model Number ⁽³⁾
			No Load	Full Load			
9-36 V	3.3 V	900 mA	10 mA	167 mA	470 µF	75%	JTE0324S3V3
	5.0 V	600 mA	10 mA	160 mA	470 µF	79%	JTE0324S05
	12.0 V	250 mA	10 mA	156 mA	100 µF	81%	JTE0324S12
	15.0 V	200 mA	10 mA	154 mA	100 µF	82%	JTE0324S15
	24.0 V	125 mA	10 mA	154 mA	47 µF	82%	JTE0324S24
	±3.3 V	±450 mA	10 mA	167 mA	±220 µF	75%	JTE0324D03
	±5.0 V	±300 mA	10 mA	160 mA	±220 µF	79%	JTE0324D05
	±12.0 V	±125 mA	10 mA	156 mA	±100 µF	81%	JTE0324D12
	±15.0 V	±100 mA	15 mA	156 mA	±100 µF	81%	JTE0324D15
±24.0 V	±63 mA	20 mA	159 mA	±47 µF	80%	JTE0324D24	
18-75 V	3.3 V	900 mA	7 mA	84 mA	470 µF	75%	JTE0348S3V3
	5.0 V	600 mA	7 mA	80 mA	470 µF	79%	JTE0348S05
	12.0 V	250 mA	7 mA	78 mA	100 µF	81%	JTE0348S12
	15.0 V	200 mA	7 mA	77 mA	100 µF	82%	JTE0348S15
	24.0 V	125 mA	7 mA	77 mA	47 µF	82%	JTE0348S24
	±3.3 V	±450 mA	7 mA	84 mA	±220 µF	75%	JTE0348D03
	±5.0 V	±300 mA	7 mA	78 mA	±220 µF	81%	JTE0348D05
	±12.0 V	±125 mA	7 mA	78 mA	±100 µF	81%	JTE0348D12
	±15.0 V	±100 mA	7 mA	78 mA	±100 µF	81%	JTE0348D15
±24.0 V	±63 mA	10 mA	81 mA	±47 µF	79%	JTE0348D24	

Notes

1. Input currents measured at nominal input voltage.
2. Maximum capacitive load is per output.
3. For optional 3000 VDC isolation add suffix '-H' to model number.

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage Range	9		36	VDC	24 V nominal
	18		75	VDC	48 V nominal
Input Filter	Pi type				
Input Reflected Ripple		20		mA pk-pk	Through 12 μ H inductor and 47 μ F capacitor
Input Surge			50	VDC for 100 ms	24 V models
			100	VDC for 100 ms	48 V models

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage					See Models and Ratings table
Initial Set Accuracy			± 2	%	
Minimum Load	0			A	No minimum load required
Line Regulation			± 0.5	%	
Load Regulation			± 1.2	%	Single output
Cross Regulation			± 5	%	On dual output models when one load is varied between 25% and 100% and other is fixed at 100%
Transient Response			3	% deviation	Recovery within 2% in less than 2 ms for a 25% load change. S3V3 versions: 5% max
Ripple & Noise			80	mV pk-pk	20 MHz bandwidth. Measured using 1 μ F ceramic capacitor D24 versions: 100 mV pk-pk
Short Circuit Protection					Continuous, 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		81		%	See Models and Ratings table
Isolation: Input to Output			1500	VDC	3000 VDC option, add '-H' to model number
Switching Frequency		330		kHz	
Isolation Resistance	10^9			Ω	
Isolation Capacitance		1000		pF	
Power Density			7.5	W/in ³	
Mean Time Between Failure	800			kHrs	MIL-HDBK-217F, +25 $^{\circ}$ C GB
Weight		0.03 (13.0)		lb (g)	

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-40		+100	$^{\circ}$ C	Derate from 100% load at +85 $^{\circ}$ C to no load at +100 $^{\circ}$ C
Storage Temperature	-55		+125	$^{\circ}$ C	
Case Temperature			+100	$^{\circ}$ C	
Humidity			95	%RH	Non-condensing
Cooling					Natural convection

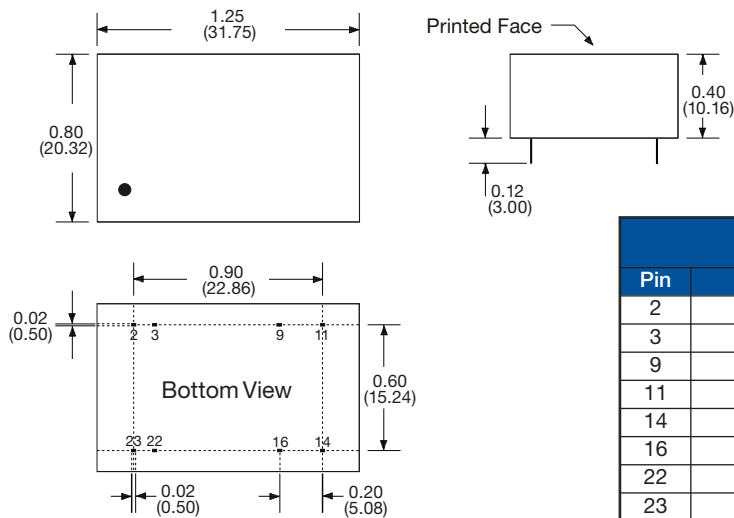
EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55022	Class A	Class B with external components, see application notes
Radiated	EN55022	Class A	

EMC: Immunity

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
ESD Immunity	EN61000-4-2	3	A	
Radiated Immunity	EN61000-4-3	20 Vrms	A	
EFT/Burst	EN61000-4-4	3	A	
Surges	EN61000-4-5	Installation class 2	A	External input capacitor required 330 μ F/100 V
Conducted Immunity	EN61000-4-6	3 V rms	A	
Magnetic Fields	EN61000-4-8	1 A/m	A	

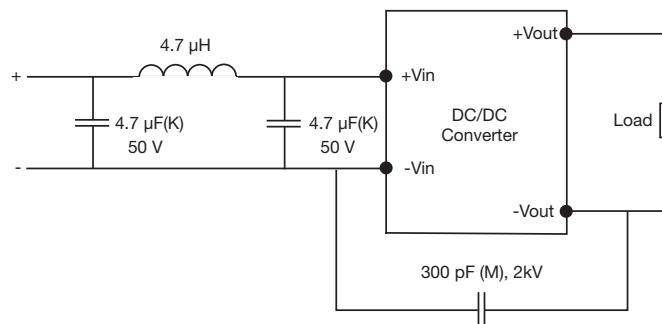
Mechanical Details



Pin Connections		
Pin	Single	Dual
2	-Vin	-Vin
3	-Vin	-Vin
9	N.P.	Common
11	N.C.	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin

Application Notes

Class B Conducted Emissions Filter



Notes

1. All dimensions are in inches (mm)
2. Weight: 0.03 lbs (13.0 g) approx.
3. Pin diameter: 0.02 \pm 0.002 (0.5 \pm 0.05)
4. Pin pitch tolerance: \pm 0.014 (\pm 0.35)
5. Case tolerance: \pm 0.02 (\pm 0.5)