



2.5-3 WATT SINGLE & DUAL OUTPUT

Isolated (1500Vdc), Wide Input (2:1 + 4:1)
DC/DC Converters



FEATURES

- 2:1 + 4:1 Input Voltage
- 1500 Vrms Input/
Output Isolation
- Input Pi Filter
- Short Circuit
Protection
- Epoxy Encapsulated
- Wide Input Voltage
- Single & Dual Output

TWA2.5/CB, TWB2.5/CB, TWA3/CB,
TWB3/CB Series

Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

INPUT

Voltages Range.....See Chart

OUTPUT

Voltage Accuracy.....±4% max.
 Line Regulation (At FL)..... ±1% max.
 Load Regulation (FL to 1/4 Load)..... ±1% max.
 Ripple Noise (20MHz Bw).....1% P-P max.
 Temperature Coefficient (at FL).....±0.2%/°C
 Short Circuit Protection.....Power Foldback

GENERAL

Efficiency (at FL)..... 55-65% Typical
 Isolation Voltage.....1500 Vrms min.
 Isolation Resistance.....1000MOhms
 Switching Frequency.....25KHz min.

ENVIRONMENTAL

Operating Temperature Range.....-20° to +71°C
 Storage Temperature Range.....-40° to +105°C
 Derating None
 Cooling.....Free Air Convection
 Relative Humidity.....Up to 95%

PHYSICAL

Case Material.....Non-Conductive Black Plastic
 Weight.....0.5 oz. (14.2 grams)
 Dimensions.....1.25" x 0.80" x 0.50"
(31.75 x 20.3 x 12.7 mm)

2:1 INPUT + 4:1 INPUT

Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA, Max)	Input Current (mA)		Model Number	Case	
				No Load	Full Load			
2:1 INPUT	5 (4.5-6)	5	500	75	860	TWA2.5-5S5-CB	CB	
		12	250	75	1000	TWA3-5S12-CB	CB	
		15	200	75	970	TWA3-5S15-CB	CB	
	12 (9-18)	5	500	25	347	TWA2.5-12S5-CB	CB	
		12	250	25	385	TWA3-12S12-CB	CB	
		15	200	25	373	TWA3-12S15-CB	CB	
	24 (18-36)	5	500	15	180	TWA2.5-24S5-CB	CB	
		12	250	15	202	TWA3-24S12-CB	CB	
		15	200	15	192	TWA3-24S15-CB	CB	
	48 (36-72)	5	500	15	90	TWA2.5-48S5-CB	CB	
		12	250	15	104	TWA3-48S12-CB	CB	
		15	200	15	96	TWA3-48S15-CB	CB	
2:1 INPUT	5 (4.5-6)	±5	±250	90	780	TWA3-5-5-CB	CB	
		±12	±125	80	890	TWA3-5-12-CB	CB	
		±15	±100	80	880	TWA3-5-15-CB	CB	
	12 (9-18)	±5	±250	40	315	TWA2.5-12-5-CB	CB	
		±12	±125	40	355	TWA3-12-12-CB	CB	
		±15	±100	40	350	TWA3-12S15-CB	CB	
	24 (18-36)	±5	±250	20	150	TWA2.5-24-5-CB	CB	
		±12	±125	20	170	TWA3-24-12-CB	CB	
		±15	±100	20	160	TWA3-24-15-CB	CB	
	48 (36-72)	±5	±250	15	75	TWA2.5-48-5-CB	CB	
		±12	±125	15	85	TWA3-48-12-CB	CB	
		±15	±100	15	85	TWA3-48-15-CB	CB	
4:1 INPUT	24 (9-36)	5	500	80	340	TWB2.5-24S5-CB	CB	
		12	250	90	385	TWB3-24S12-CB	CB	
		15	200	90	385	TWB3-24S15-CB	CB	
	48 (20-72)	5	500	50	160	TWB2.5-48S5-CB	CB	
		12	250	50	180	TWB3-48S12-CB	CB	
		15	200	50	180	TWB3-48S15-CB	CB	
4:1 INPUT	24 (9-36)	±5	±250	80	330	TWB2.5-24-5-CB	CB	
		±12	±125	90	385	TWB3-24-12-CB	CB	
		±15	±100	90	385	TWB3-24-15-CB	CB	
	48 (20-72)	±5	±250	50	170	TWB2.5-48S5-CB	CB	
		±12	±125	50	180	TWB3-48-12-CB	CB	
		±15	±100	50	180	TWB3-48-15-CB	CB	



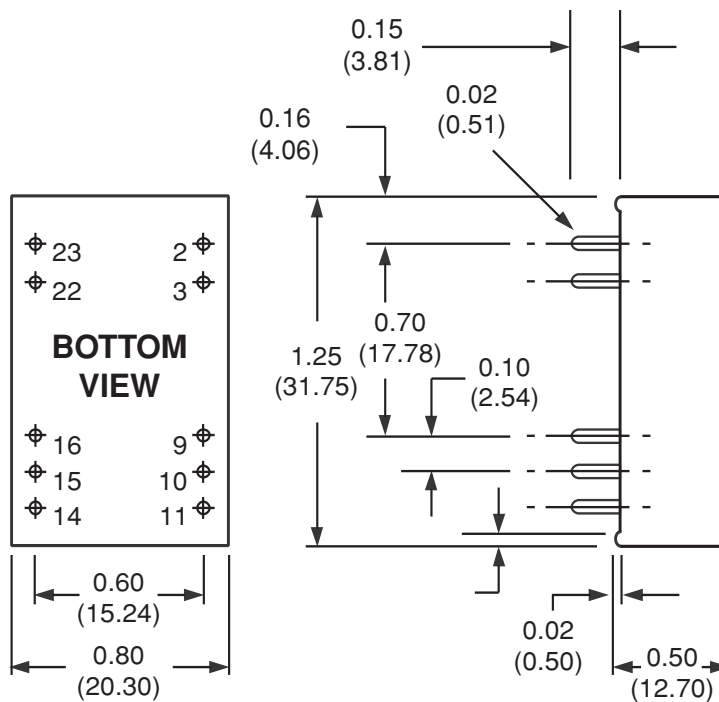
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Mechanical Specifications

I/O Connections		
FUNCTION	SINGLE	DUAL
+ Vin	22 & 23	22 & 23
- Vin	2 & 3	2 & 3
+ Vout	14	14
Common	NC	9 & 16
-Vout	16	11



All Dimensions are in inches (mm)



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