

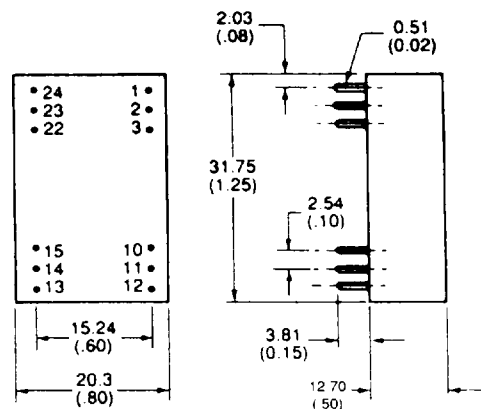
DC/DC CONVERTERS - 3W **WIDE INPUT RANGE (continued)**

SINGLE VOLTAGE	12 (9-18)	5	500	25	320	TWA3-12S5	39.00
		12	250	25	370	TWA3-12S12	39.00
		15	200	25	370	TWA3-12S15	39.00
	24 (18-36)	5	500	15	170	TWA3-24S5	39.00
		12	250	15	186	TWA3-24S12	39.00
		15	200	15	182	TWA3-24S15	39.00
	48 (36-72)	5	500	15	85	TWA3-48S5	39.00
		12	250	15	94	TWA3-48S12	39.00
		15	200	15	94	TWA3-48S15	39.00

DUAL VOLTAGE	12 (9-18)	± 5	± 250	25	320	TWA3-12-5	43.00
		± 12	± 125	25	370	TWA3-12-12	43.00
		± 15	± 100	25	370	TWA3-12-15	43.00
	24 (18-36)	± 5	± 250	15	170	TWA3-24-5	43.00
		± 12	± 125	15	186	TWA3-24-12	43.00
		± 15	± 100	15	182	TWA3-24-15	43.00
	48 (36-72)	± 5	± 250	15	85	TWA3-48-5	43.00
		± 12	± 125	15	94	TWA3-48-12	43.00
		± 15	± 100	15	94	TWA3-48-15	43.00

DIMENSION: BOTTOM VIEW

Pin Connections		
PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+ V INPUT	+ V INPUT
2	N.C.	- V OUTPUT
3	N.C.	COMMON
10	- V OUTPUT	COMMON
11	+ V OUTPUT	+ V OUTPUT
12	- V INPUT	- V INPUT
13	- V INPUT	- V INPUT
14	+ V OUTPUT	+ V OUTPUT
15	- V OUTPUT	COMMON
22	N.C.	COMMON
23	N.C.	- V OUTPUT
24	+ V INPUT	+ V INPUT



ALL DIMENSIONS IN MM (INCHES)



POLYTRON DEVICES, INC.

P.O. BOX 398, PATERSON, N.J. 07544 (201) 345-5885 FAX: (201) 345-1264

7247478 0000141 T03

Regulated DC/DC Converter 1500 Vrms Isolation Voltage

• 2.5/3W • 24 Pin Dip Package • WIDE INPUT VOLTAGE

FEATURES:

- Input/Output Isolation: 1500 Vrms
- Input Pi Filter
- Short Circuit Protection
- Epoxy Encapsulated

SPECIFICATIONS:

Typical @ 25°C under full load and nominal input voltage unless otherwise specified.

INPUT:

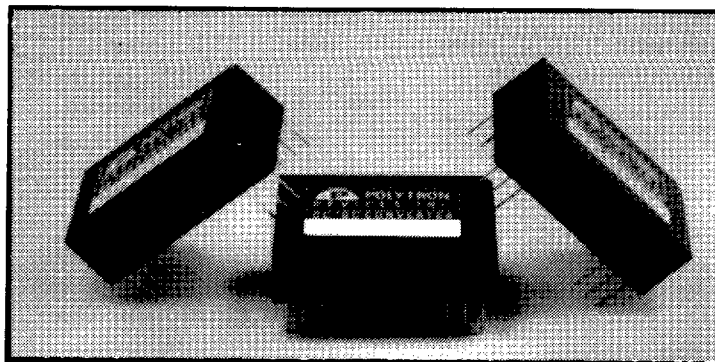
Voltage Range.....See Chart

OUTPUT:

Voltage Accuracy.....± 4% Max
 Line Regulation (@ FL).....± 1% Max
 Load Regulation (Full Load to 1/4 Load).....± 1% Max
 Ripple Noise (20 MHz Bw).....1% P-P Max
 Temperature Coefficient (@ FL).....± 0.02%/°C
 Short Circuit Protection.....Power Foldback

GENERAL:

Efficiency (@FL).....70% Typical
 Isolation Voltage.....1500 Vrms Min.
 Isolation Resistance.....1000 Mohms
 Switching Frequency.....25 KHz Min.



ENVIRONMENTAL:

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

PHYSICAL:

Case Material.....Non-Conductive Plastic Case
 Weight.....0.5 oz. (14.17 grams)
 Dimension.....1.25" x 0.80" x 0.50"
 (31.75 x 20.3 x 12.7 mm)

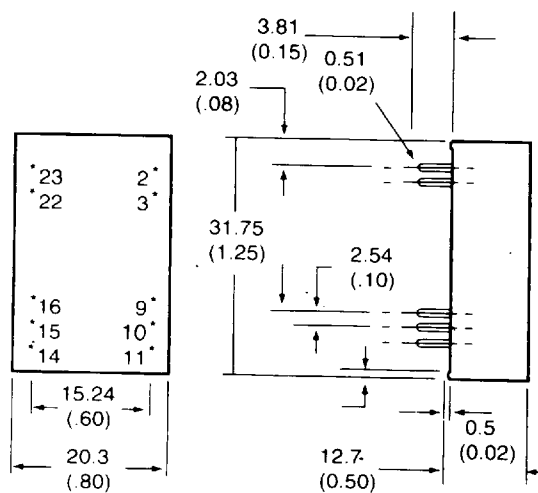
	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA) (Max)	INPUT CURRENT (mA)		MODEL NO.	CASE	PRICE (1-9 QTY)
				NO LOAD	FULL LOAD			
SINGLE OUTPUT VOLTAGE	4.5-6.0	5	500	75	860	TWA2.5-5S5-CB	CB	\$54.00
		12	250	75	1000	TWA3-5S12-CB	CB	\$54.00
		15	200	75	970	TWA3-5S15-CB	CB	\$54.00
	9-18	5	500	25	347	TWA2.5-12S5-CB	CB	\$54.00
		12	250	25	385	TWA3-12S12-CB	CB	\$54.00
		15	200	25	373	TWA3-12S15-CB	CB	\$54.00
	18-36	5	500	15	180	TWA2.5-24S5-CB	CB	\$54.00
		12	250	15	202	TWA3-24S12-CB	CB	\$54.00
		15	200	15	192	TWA3-24S15-CB	CB	\$54.00
	36-72	5	500	15	90	TWA2.5-48S5-CB	CB	\$54.00
		12	250	15	104	TWA3-48S12-CB	CB	\$54.00
		15	200	15	96	TWA3-48S15-CB	CB	\$54.00



Regulated DC/DC Converters (Continued)

1500 Vrms Isolation

FUNCTION	SINGLE
+ INPUT	22 & 23
- INPUT	2 & 3
+OUTPUT	14
COMMON	NC
- OUTPUT	16



BOTTOM VIEW

All dimensions are in mm (inches)



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