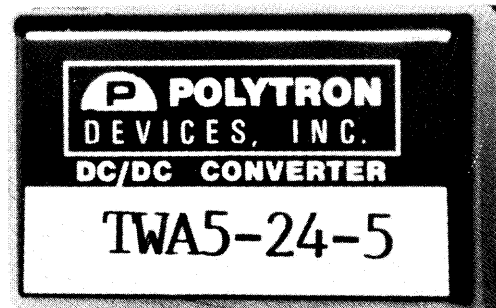


Wide Input Voltage Range (9-18Vdc, 18-36Vdc, 36-72Vdc)

**Regulated DC/DC Converters****5 Watt****FEATURES:**

- 5 Watts in D.I.L. Package
- 9-18Vdc, 18-36Vdc, 36-72Vdc
- Typical Efficiency 80%
- Isolated Outputs
- Regulated Outputs
- Low Profile Package
- No derating to 70°C
- Five-Sided EMI Shield

**SPECIFICATIONS:**

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

**INPUT:**

Input Voltage Range

12V nominal.....9-18 Vdc

24V nominal.....18-36 Vdc

48V nominal.....36-72 Vdc

Input Filter.....PI Network

**OUTPUT:**

Voltage Accuracy.....± 2%

Line Regulation .....± 0.2%

Load Regulation .....± .20%(Single), ± 1.0% (Dual)

Temperature Coefficient.....±0.02%/° C

Output Noise and Ripple (20MHz BW).....50mV P-P Max.

Short Circuit Protection.....Indefinite

**GENERAL:**

Isolation Voltage.....1500 Vdc, Min.

Isolation Resistance.....10<sup>9</sup> Ohms, Min.

Switching Frequency.....300KHz, Typ.

Isolation Capacitance.....300pF Max.

**ENVIRONMENTAL:**

Operating Temperature Range.....-25° C to +71° C

Storage Temperature Range.....-40° C to +125° C

Cooling.....Free-Air Convection

EMI/RFI.....Five-Sided Continuous Shield

**PHYSICAL:**

Dimensions.....1.25 x 0.80 x 0.40 Inches

Case Material.....Nickel Coated Copper With Non-Conductive Base

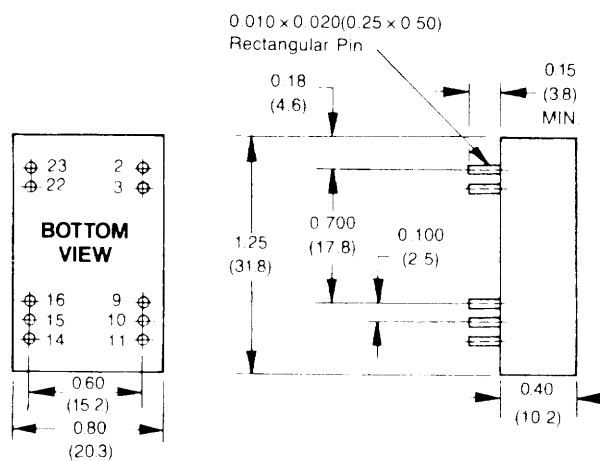
# TWA5 SERIES

## REGULATED DC/DC CONVERTERS 5 WATT (CONTINUED)

		INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% Eff.	POLYTRON MODEL NUMBER	PRICE 1-9 QTY.
		<b>2:1 INPUT RANGE</b>		<b>SINGLE VOLTAGE</b>			
9-18	5			1000	73	TWA5-12S5	\$45.00
9-18	12			470	80	TWA5-12S12	\$45.00
9-18	15			400	80	TWA5-12S15	\$45.00
18-36	5			1000	74	TWA5-24S5	\$45.00
18-36	12			470	82	TWA5-24S12	\$45.00
18-36	15			400	82	TWA5-24S15	\$45.00
36-72	5			1000	78	TWA5-48S5	\$45.00
36-72	12			470	80	TWA5-48S12	\$45.00
36-72	15	400	80	TWA5-48S15	\$45.00		
<b>DUAL VOLTAGE</b>		9-18	±5	±500	74	TWA5-12-5	\$49.00
		9-18	±12	±230	80	TWA5-12-12	\$49.00
		9-18	±15	±190	80	TWA5-12-15	\$49.00
		18-36	±5	±500	75	TWA5-24-5	\$49.00
		18-36	±12	±230	82	TWA5-24-12	\$49.00
		18-36	±15	±190	82	TWA5-24-15	\$49.00
		36-72	±5	±500	78	TWA5-48-5	\$49.00
		36-72	±12	±230	80	TWA5-48-12	\$49.00
		36-72	±15	±190	80	TWA5-48-15	\$49.00

Pin Connections		
Pin #	Single	Dual
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Common
10	NC	NC
11	NC	-Vout
14	+Vout	+Vout
15	NC	NC
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin

\*NC: No connection



ALL DIMENSIONS IN INCHES(mm)