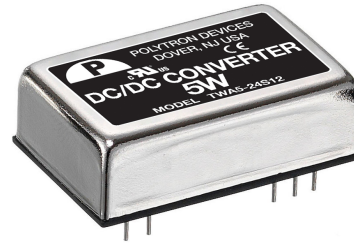




5 WATT SINGLE & DUAL OUTPUT

Regulated, 24 Pin DIP Package
DC/DC Converters
2:1, 4:1 Input Voltage



FEATURES

- **2:1, 4:1 Input Voltage Range**
- **DIP and Surface Mount Package Available**
- **Efficiency 80% Typ.**
- **Isolated Outputs**
- **Low Profile Package**
- **No Derating to 70°C**
- **5 Sided EMI Shield**

TWA5, TWB5 Series

Specifications

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

INPUT

Input Voltages.....	Voltage Range
12 Vdc.....	9 - 18 Vdc
24 Vdc.....	18 - 36 Vdc
48 Vdc.....	36 - 72 Vdc
24 Vdc.....	9 - 36 Vdc
48 Vdc.....	18 - 72 Vdc
Input Filter.....	Pi Network

OUTPUT

Voltage Accuracy.....	±2% max.
Line Regulation.....	±0.2%
Load Regulation.....	±0.2% (Single Output)
	±1.0% (Dual Output)
Ripple Noise (20MHz Bw).....	50mV p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Short Circuit Protection.....	Indefinite

GENERAL

Efficiency.....	Up to 80% typical
Isolation Voltage.....	1500 Vdc min., SMD type 1600 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	300KHz typical
Isolation Capacitance.....	300pF max.

ENVIRONMENTAL

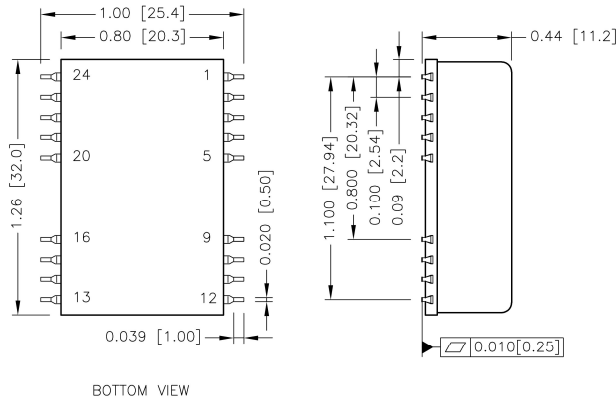
Operating Temperature Range.....	-25° to +71° C
	-40° to +85° C available.
	Use suffix "W" after Model Number. Price added 1-9 Qty.
Storage Temperature Range.....	-40° to +125° C
Cooling.....	Free Air Convection
EMI/RFI.....	Five-Sided Continuous Shield

PHYSICAL

Case Material.....	Nickel Coated Copper w/ Non-Conductive Base
Dimensions.....	1.25" x 0.80" x 0.40"

Mechanical Specifications (continued)

SMD type



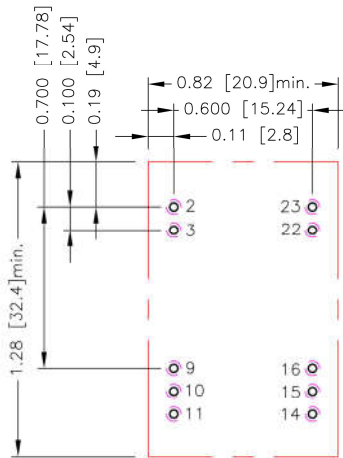
PIN CONNECTION

PIN	SINGLE	DUAL	PIN	SINGLE	DUAL
2	-Vin	-Vin	23	+Vin	+Vin
3	-Vin	-Vin	22	+Vin	+Vin
9	NC	Common	16	-Vout	Common
10	NC	NC	15	NC	NC
11	NC	-Vout	14	+Vout	+Vout
Others	NC	NC			

1. All dimensions in inch [mm]
2. Tolerance :x.xx±0.02 [x.x±0.5]
x.xxx±0.01 [x.xx±0.25]
4. Pin dimension tolerance ±0.004[0.10]

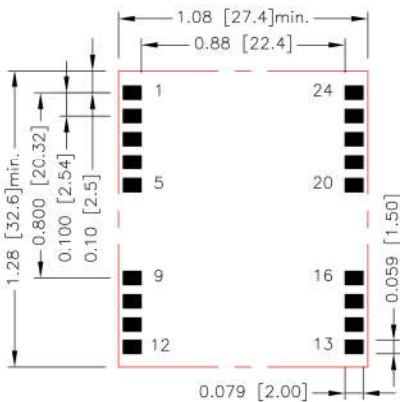
Recommended Pad Layout

DIP type



- All dimensions in inch[mm]
 Pad size(lead free recommended)
 Through hole 2.3.9.10.11.14.15.16.22.23: \varnothing 0.031[0.80]
 Top view pad 2.3.9.10.11.14.15.16.22.23: \varnothing 0.039[1.00]
 Bottom view pad 2.3.9.10.11.14.15.16.22.23: \varnothing 0.063[1.60]

SMD type



- All dimensions in inch[mm]
 Pad size(lead free recommended)
 Top view pad:0.079x0.059[2.00x1.50]



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