

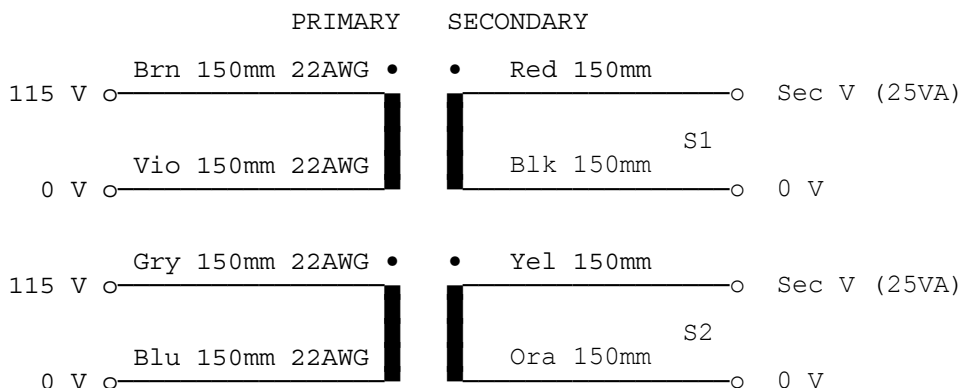


TOROID International Ltd.

Issue. 2  
28/11/02

## Data Sheet for TA range 50VA General Purpose Toroidal Transformers.

### Schematic



### Primary

**Dual primary winding for connection in series or parallel only**

Input Voltage: 115 or 230v ± 10% 50/60Hz.

DC resistance: 2x 25.5 Ohms ± 15% @ 20 deg.C

Magnetising current: 4.5mA approx.@ 230v 50Hz (9.0mA approx. @ 115v 50Hz)

### Termination

All leads Tri-Rated UL1015 style cable rated 600v /105°C VW-1

Primary leads double insulated with PVC sleeving for a minimum of 20mm.

Lead lengths ± 5mm approx. All leads ends tinned to 6 mm.

Pri/Sec leads 0°

### Losses

Iron loss : 0.46 Watts approx.

Copper loss: 7.3 Watts Approx.

Efficiency : 87.0% typical

Temperature rise: 50°C approx.

Ambient rated: 40°C

### Temperature Class

Winding wire: Class H (180°C)

Insulation system: Class B (130°C)

Leadout insulation: Class A (105°C)

Overall: Class A (105°C)

Farnell Part No.	On Load Sec V	Rated amps per Sec	Off load Sec V	Sec Flex Gauge	Sec Ohms @ 20°C.	TI Part No.	UL Part No.
306-8651	6	4.17	6.8	20 AWG	0.11	TA050/06	TI-69080-ME
306-8663	9	2.78	10.2	20 AWG	0.23	TA050/09	TI-69081-ME
306-8675	12	2.08	13.6	22 AWG	0.42	TA050/12	TI-69082-ME
306-8687	15	1.67	17.0	22 AWG	0.67	TA050/15	TI-69083-ME
306-8699	18	1.39	20.5	22 AWG	1.01	TA050/18	TI-69084-ME
306-8705	25	1.00	28.4	22 AWG	1.78	TA050/25	TI-69085-ME
306-8717	55	0.45	62.3	22 AWG	8.67	TA050/55	TI-69091-ME

### Approx. dimensions/weight (mounting excluded)

Diameter 81.0 mm\* \* allow extra 5mm  
 Height 34.5 mm\* over leadout area  
 Weight 0.65 kg

### Supplied with

1x 50mm dished mounting plate  
 2x 50mm neoprene mounting pads  
 1x M5 x 40mm screw, nut & washer

### Standards

Designed and manufactured in accordance with:  
 EN60742 (Non short circuit proof), EN60065 (IEC65), EN60950.

UL recognised to UL1411, 2601-1 and UL1950 under family approval file E115159

