

**ENGLISH**

# Datasheet

## 2 Output Toroidal Transformer, 50VA, 12 V ac

RS Stock number [671-9090](#)

Open Style, with leads, 2x115V Primary, 50VA

|      |        |        |      |           |   |
|------|--------|--------|------|-----------|---|
| 115V | Brown  | Red    | Vsec | Primary   | 2x115V @ 50/60Hz                        |
| 0V   | Blue   | Black  | 0V   | Secondary | 2 x Vsec, @ 25VA Each                   |
| 115V | Green  | Yellow | Vsec |           | Suitable for Series/Parallel Connection |
| 0V   | Violet | Orange | 0V   |           |   |

| RS Code No. | RS Part No. | Full Load Vsec [V] | Rated Current per Sec [A] | No Load Vsec [V] | DC resistance [Ohms] @ 25° C |
|-------------|-------------|--------------------|---------------------------|------------------|------------------------------|
| 671-9088    | 81574-P2S2  | 2x6                | 4.167                     | 2 x 6.82         | 2 x 0.0978                   |
| 671-9097    | 81575-P2S2  | 2x9                | 2.778                     | 2 x 10.29        | 2 x 0.2029                   |
| 671-9090    | 81576-P2S2  | 2x12               | 2.083                     | 2 x 13.63        | 2 x 0.3783                   |
| 671-9094    | 81577-P2S2  | 2x15               | 1.667                     | 2 x 17.10        | 2 x 0.6079                   |
| 671-9104    | 81578-P2S2  | 2x18               | 1.389                     | 2 x 20.57        | 2 x 0.8205                   |
| 671-9107    | 81579-P2S2  | 2x25               | 1.000                     | 2 x 28.50        | 2 x 1.6018                   |
| 671-9101    | 81580-P2S2  | 2x55               | 0.455                     | 2 x 62.70        | 2 x 7.8847                   |

**Primary Winding**

Input Voltage : 2 x 115V±10% @ 50/60Hz  
DC Resistance @25°C = 2 x 25 Ohms (approx)  
Magnetising Current @ 115V = 150.0mA (approx)  
Magnetising Current @ 126.5V = 350.0mA (approx)

**Losses**

Iron Losses 4.50 Watts (approx)  
Copper Losses 8.90 Watts (approx)

**Temperature Class**

Winding Wire (Primary & Secondary). Class H (180° C)  
Insulation between input and output. Class B (130° C)  
Connection lead insulation. Class A (105° C)

**Standards**

Designed, manufactured and tested according to the requirements of:  
EN61558 Class II, Non-Short-Circuit Proof  
VDE0570 Class II  
IEC61558 Class II  
UL506

**Physical Data**

Approximation Dimension Diameter 80mm\*  
Height 33mm  
\* Measured away from leadout bulge, allow extra 4mm at leads  
Approximate weight 0.74 Kg

**Terminations**

**Primary** Flexible equipment wire, 105°C PVC, 7/0.20 (0.22mm<sup>2</sup>)  
Double Insulated over entire length with PVC sleeves  
150mm Long, with 10mm stripped ends.

**Secondary** Solid copper conductors (extension of winding wire)  
insulated over their entire length with PVC tubing  
150mm Long, with 10mm tinned ends.