

Datasheet

**RS Pro 2 Output Toroidal Transformer, 160VA, 2 x 12V ac**

RS Stock No: **671-9019**



## Product Details

RS Pro 2 output toroidal transformer is a small size and low weight with traditional stacked laminated transformers. It has both primary and secondary windings connected in series or parallel. This transformer has primary voltage rating of 115 V ac, 230 V ac, secondary voltage rating of 2 x 12 V ac and power rating of 160 VA. Toroidal transformer meets EN 61558, IEC 742, UL 506, UL 1411, UL 478 and CE certified.

## Features and Benefits

- Low induced noise (hum)
- Low level of radiated magnetic field
- Flexible leadouts for ease of installation
- 100% electrical and flash testing

**Specifications:**

Diameter	109 mm
Dimensions	109 (dia.) x 46 mm
Height	46 mm
Maximum Operating Frequency	60 Hz
Minimum Operating Frequency	50 Hz
Number of Outputs	2
Power Rating	160 VA
Primary Voltage Rating	230 V ac
Secondary Current	6.667 A
Secondary Voltage Rating	2 x 12 V ac
Termination Type	Copper Conductor
Weight	1.74 kg
Construction	Open
Standards Met	UL 506, IEC 61558 Class II, EN 61558 Class II, VDE0570 Class II, RoHS Compliant

**ENGLISH****Open Style, with leads, 230V Primary, 160VA**

230V	Brown	Red	Vsec	Primary	230V @ 50/60Hz
		Black	0V	Secondary	2 x Vsec, @ 80VA Each
		Yellow	Vsec		Suitable for Series/Parallel Connection
0V	Blue	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
671-9019	81551-P1S2	2x12	6.667	2 x 12.99	2 x 0.0819
671-9012	81552-P1S2	2x15	5.333	2 x 16.39	2 x 0.1377
671-9016	81553-P1S2	2x18	4.444	2 x 19.58	2 x 0.1842
671-9025	81554-P1S2	2x25	3.200	2 x 27.18	2 x 0.3503
671-9028	81555-P1S2	2x30	2.667	2 x 32.57	2 x 0.5257
671-9022	81556-P1S2	2x55	1.455	2 x 59.70	2 x 1.7576

**Primary Winding**

Input Voltage : 230V±10 % @ 50/60Hz  
DC Resistance @25°C = 10 Ohms (approx)  
Magnetising Current @ 230V = 120.0mA (approx)  
Magnetising Current @ 253V = 300.0mA (approx)

**Losses**

Iron Losses 7.0 Watts (approx)  
Copper Losses 18.80 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 109mm\*  
Height 46mm  
\* Measured away from leadout bulge, allow extra 4mm at leads  
Approximate weight 1.74 Kg

**Terminations**

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