

SOWTER TYPE 3603

600/600 Input/Output Transformer

Applications

General purpose. For isolating and balancing a low impedance input or output. High performance Sowter generic transformer similar to Triad HS-56 (in overall 1:1 configuration) Suitable for Pulteq EQP-1A line input. Suitable for balancing and/or isolating the output of a CD player or sound card. Total dc resistance 160 ohms Max level +17dBu (5V). OCC wire option. Tested with Drip EPQ1A (Choose threaded grommet type 3603E).

Electrical isolation where the source is a low impedance. Creates a floating output from an unbalanced or balanced source which can be loaded balanced or unbalanced. For virtual elimination of most kinds of noise caused when equipment is connected. For helping to ensure Electromagnetic Compatibility (EMC) standards compliance. May be used for balanced to unbalanced conversion and vice versa. An ideal transformer for balancing the output of a pre-amplifier to enable it to drive a balanced line. The pre-amp should have an output impedance up to 600 Ohms. The load can be any value equal or greater than 600 Ohms. See application circuit below. Can also be used as an input transformer for inputs with an impedance of up to 1200 Ohms.



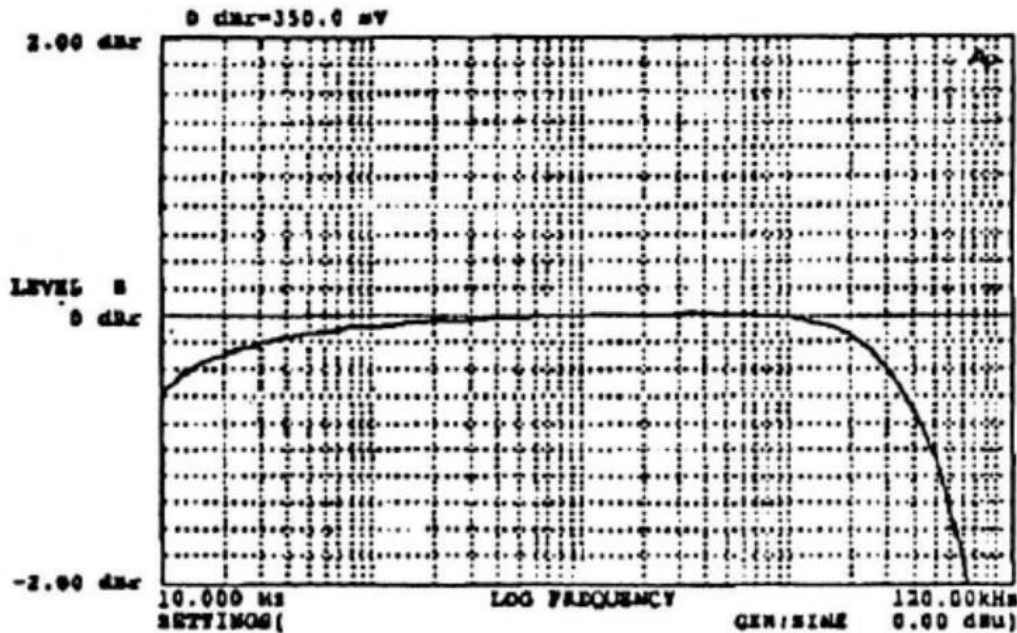
Features

High impedance presents minimal load to a source up to 600 Ohms even at 15 Hz. Mumetal core for minimal harmonic distortion. Internal electrostatic shield for high common mode noise rejection. Mumetal can for magnetic shielding. Secondary centre tap for phase splitting, Phantom powering etc. Various package options.

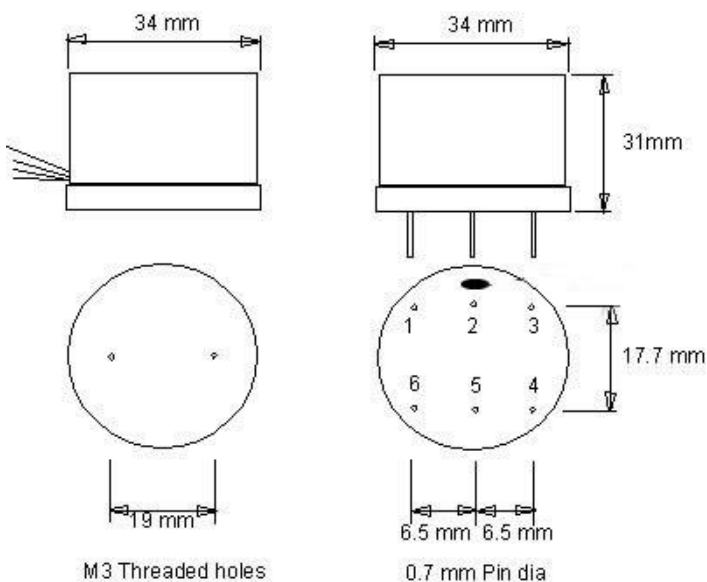
Specifications

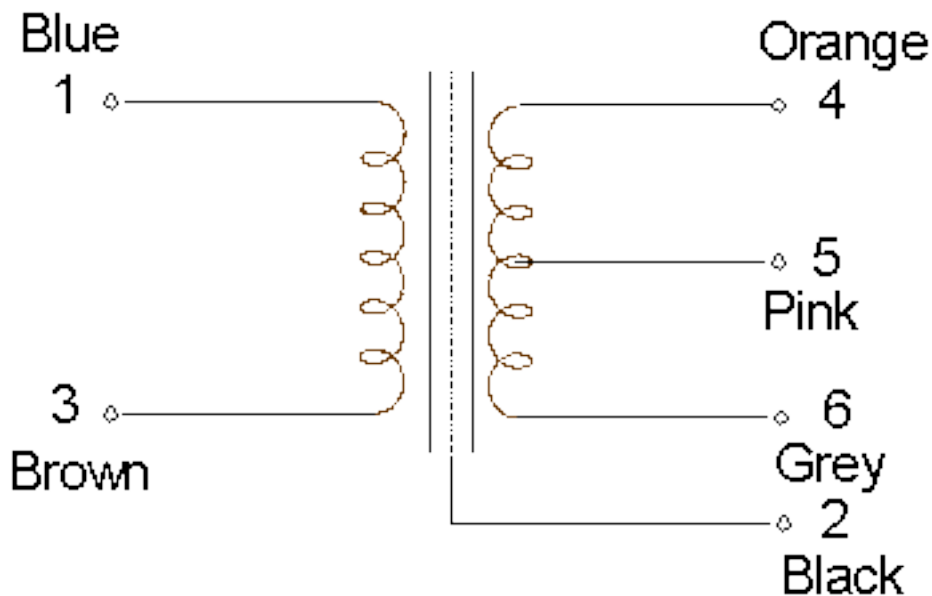
Item	Value
RATIO	1:1ct
MAXIMUM LEVEL 0.5 % THD at 50 Hz (40 ohm source)	+17 dBu
DISTORTION at 50 Hz (Source 40 ohms)	0.05% at +20 dBu
PRIMARY INDUCTANCE	15H approx
TOTAL DCR (Referred to primary)	100 Ohms approx
INSERTION LOSS 10k ohm source 10k ohm load	1.0 dBu
INPUT/OUTPUT BALANCE	>60 dB
FREQUENCY RESPONSE 6k4 ohm source 10k ohm load	+/- 1.0 dB 5 Hz to 70 kHz

Mechanicals

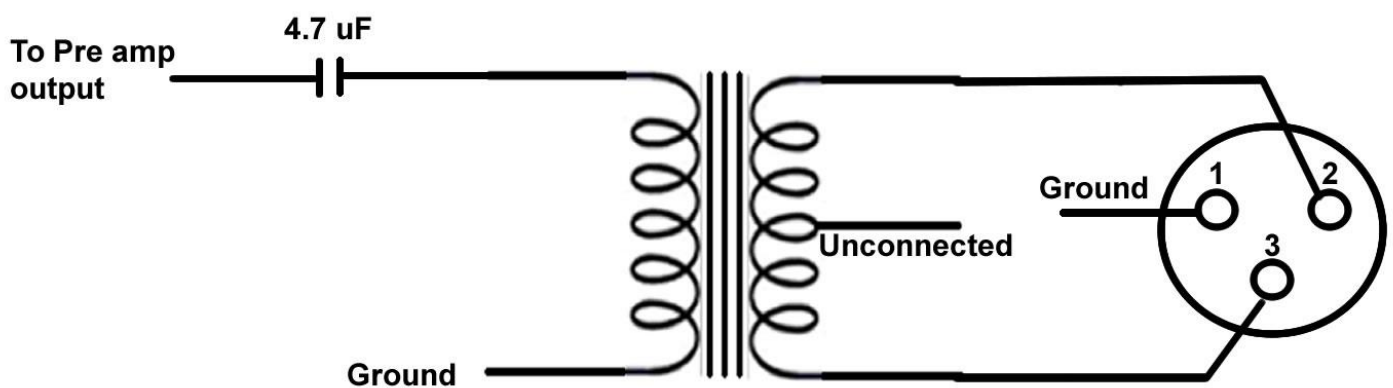


Typical response 600 Ohms source 600 Ohm load.





Connections



Balancing circuit for pre-amp output.