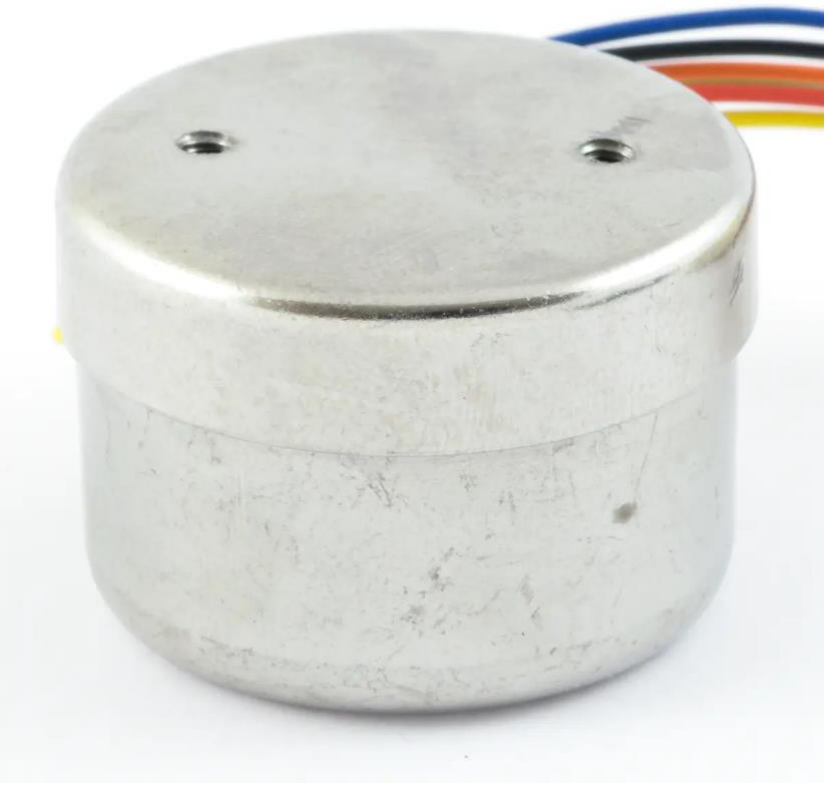
SOWTER TYPE 1990

1:10/1:20 Low Z Cartridge Transformer

Applications



Very high-performance transformer for use with cartridges with an impedance in the range 1 to100 ohms. Has two primary windings which can be configured in series or parallel for 1:10 or 1:20 ratio. Ideal if you are not sure if you have enough gain for a 1:10 cartridge. Cartridge loading adjustable with secondary load resistor. Bandwidth 5Hz to 100 kHz. Two transformers are required for stereo.

For matching a moving coil phono cartridge to balanced or single sided solid state or valve pre-amplifier. Ensures appropriate loading of the cartridge and correct matching to pre-amplifier. Ideal for use with low output cartridges with a dc resistance in the range 1 to 5 ohms. 1:20) and 1 to 40 Ohms (1:10 configuration). The loading seen by the cartridge may be adjusted by means of a secondary load resistor.

Two transformers are required for a stereo system. For 1:20 operation connect the primary windings in parallel. (Grey to Red and Orange to White) For 1:10 operation connect the primary windings in series (Orange to Red). The Black (ground) lead is normally connected to the signal ground of the amplifier. You may need to experiment with different connection points to eliminate hum.

Features

Mumetal (76%Nickel) laminated core for minimal harmonic distortion and exceptional bandwidth. 4 separate electrostatic screens for rejection of hum and noise in the cable connecting between the cartridge and transformer. Multiple interleaved windings ensuring exceptionally good bandwidth with a wide range of cartridge impedances. As shown above the bandwidth improves with lower cartridge

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resistances. The high bandwidth and very low phase shift ensure excellent transient response. Mumetal can for magnetic shielding. Available with colour coded leads or international octal plug for a small extra charge. Available wound with OCC wire as an option. This transformer replaces types 7136 and 9575. Available with threaded grommet (style e), Octal base (style g) and side leads (style f).

Specifications

Item	Value
RATIO	1+1+20
PRIMARY INDUCTANCE (primaries in series 1:10 ratio)	2H approx
DC Resistance (primary)	2.4 Ohms approx
DC Resistance (secondary)	1500 Ohms approx
FREQUENCY RESPONSE 40 Ohm source 10 KOhm load. (-3 dB points)	5Hz to 100 KHz

Mechanicals