



OEP AUDIO TRANSFORMERS

A range of economically priced PCB mounting transformers, manufactured by OEP in England. A262 types and Z3003E are supplied without screening cans, these are available as an optional extra. Z218 series have fitted mu-metal screening cans, while Z1604 and E187A are unscreened.

Full data and application notes for each type are available from the OEP website at www.oep.co.uk or from Canford Technical Support.

Z21805

Suitable for microphone input stages optimised for low source impedances (500-1000 ohms), typical of low Rbb bipolar transistors and operational amplifiers such as the LT1208. It can also be used for line level inputs when used in current mode active input circuits. Turns ratio 1:2 tapped at 0.5. Dimensions: 19.5(l) x 16.0(w) x 14.95 (h. above PCB) mm.

Z21806

Suitable for line level input stages using the current mode or 'zero field' technique. This removes most of the artefacts normally associated with audio transformers whilst retaining the desirable galvanic isolation RFI blocking. Turns ratio 1:1. Dimensions: 19.5(l) x 16.0(w) x 14.95 (h. above PCB) mm.

Z21807

Suitable for line level input stages (10k – 20k ohm bridging). Turns ratio 1:0.5+0.5. Dimensions: 19.5(l) x 16.0(w) x 14.95 (h. above PCB) mm.

Z21808

Suitable for microphone input stages optimised for medium source impedances (c. 5k ohms), typical of medium Rbb bipolar transistors and operational amplifiers such as the NE5534. It can also be used for line level inputs when used in current mode active input circuits. Turns ratio 1:6 tapped at 1:1.8. Dimensions: 19.5(l) x 16.0(w) x 14.95 (h. above PCB) mm.

A262 series

General purpose audio transformers, details in table below.

Z3003E

Line bridging or output transformer, details in table below.

E187A

Line input transformer, details in table below.

Z1604

Line input transformer, details in table below.

	A262A7E	A262A3E	A262A2E	Z3003E	E187A	Z1604
Type	General purpose audio			Line bridging or output	Line level input	Line level input
Dimensions: Length x Width x Height	28 x 23 x 22			32 x 27 x 15	19 x 16 x 16	18 x 18 x 15
Turns ratio:	1+1:1+1	1+1:6.45+6.45	1+1:2+2	1+1:2	1:..5+..5	1:..5+..5
Pin Layout: (Viewed from pins side - i.e. tracks side of PCB)						
Windings Schematic						
Distortion (THD)	<1% @ 100mW @ 300Hz 1mW @ 30Hz			<1% @ +20dBu (Primaries in series)	<1% @ 20Hz 2mW	Below saturation: <0.02% At 2mW into 600ohms: <1% at 60 Hz
Source Impedance	600/2k4ohms	150/600ohms	150/600ohms	2.5k/10kohms	600ohms	600ohms
Optimum Load Impedance	600/2k4ohms	6.25k/25kohms	600/2.4kohms	10kohms	600ohms C.T.	600ohms C.T.
Frequency Response	30Hz-35kHz ±1.5dB	30Hz-25kHz ±1.5dB	30-35kHz ±1.5dB	20Hz-20kHz ±0.2dB	200Hz-15kHz	60Hz-25kHz ±0.5dB 0.2mW: 30Hz-25kHz ±0.7dB
Balance	>70dB	>60dB	>70dB	>60dB @ 10kHz	>60dB	>65dB
DC resistance of each primary	42ohms	10ohms	9.6ohms	870+1187ohms	69ohms	109ohms
DC resistance of each secondary	58ohms	535/605ohms	55ohms	2010ohms	97ohms	64+69ohms
Isolation between windings	1kV			1500V DC	500V DC	>1.5kV
Additional Information	PCB mount miniature high performance Interwinding foil screen Max power: 100mW @ 300Hz, 2.5mW @ 50Hz Mu-metal screening is available as an accessory			PCB mount low profile encapsulated. Electrostatic and flux screens	Miniature PCB mount Max power: 2mW	Miniature PCB mount encapsulated Return loss: >19dB 300-3400Hz
Applications	Input, output and interstage			High impedance bridging	Low level line	Low level line



23-062	OEP Z21805 TRANSFORMER Analogue audio, PCB, microphone input
23-063	OEP Z21806 TRANSFORMER Analogue audio, PCB, line input
23-064	OEP Z21807 TRANSFORMER Analogue audio, PCB, bridging line input
23-065	OEP Z21808 TRANSFORMER Analogue audio, PCB, microphone input
23-061	OEP A262A7E TRANSFORMER Analogue audio, PCB, general purpose
23-053	OEP A262A3E TRANSFORMER Analogue audio, PCB, general purpose
23-054	OEP A262A2E TRANSFORMER Analogue audio, PCB, general purpose
23-055	OEP A262CAN TRANSFORMER SCREENING CAN
23-056	OEP Z3003E TRANSFORMER Analogue audio, PCB, line bridging or output
23-057	OEP Z30CAN TRANSFORMER SCREENING CAN
23-058	OEP E187A TRANSFORMER Analogue audio, PCB, line input
23-059	OEP Z1604 TRANSFORMER Analogue audio, PCB, line input