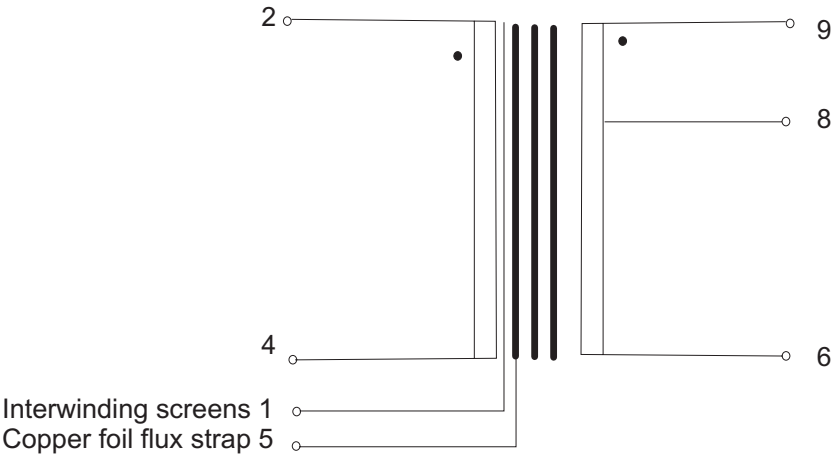
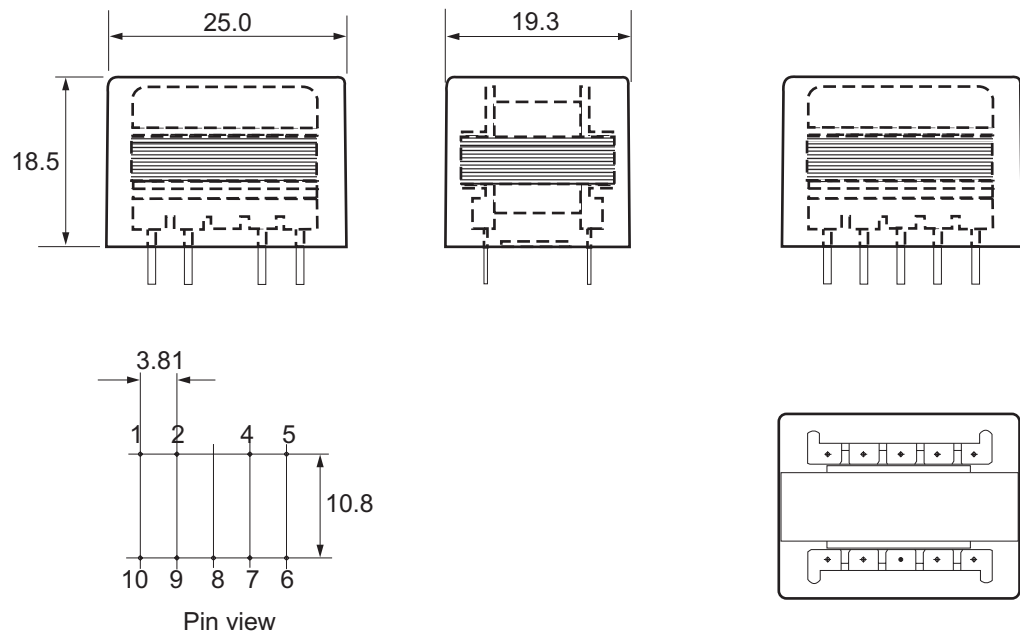


This device is intended for microphone input stages optimised for medium source impedance (~5kΩ), typical of medium Rbb bipolar transistors and operational amplifiers such as the NE5534. It can also be used for line level inputs when used in current mode active input circuits.

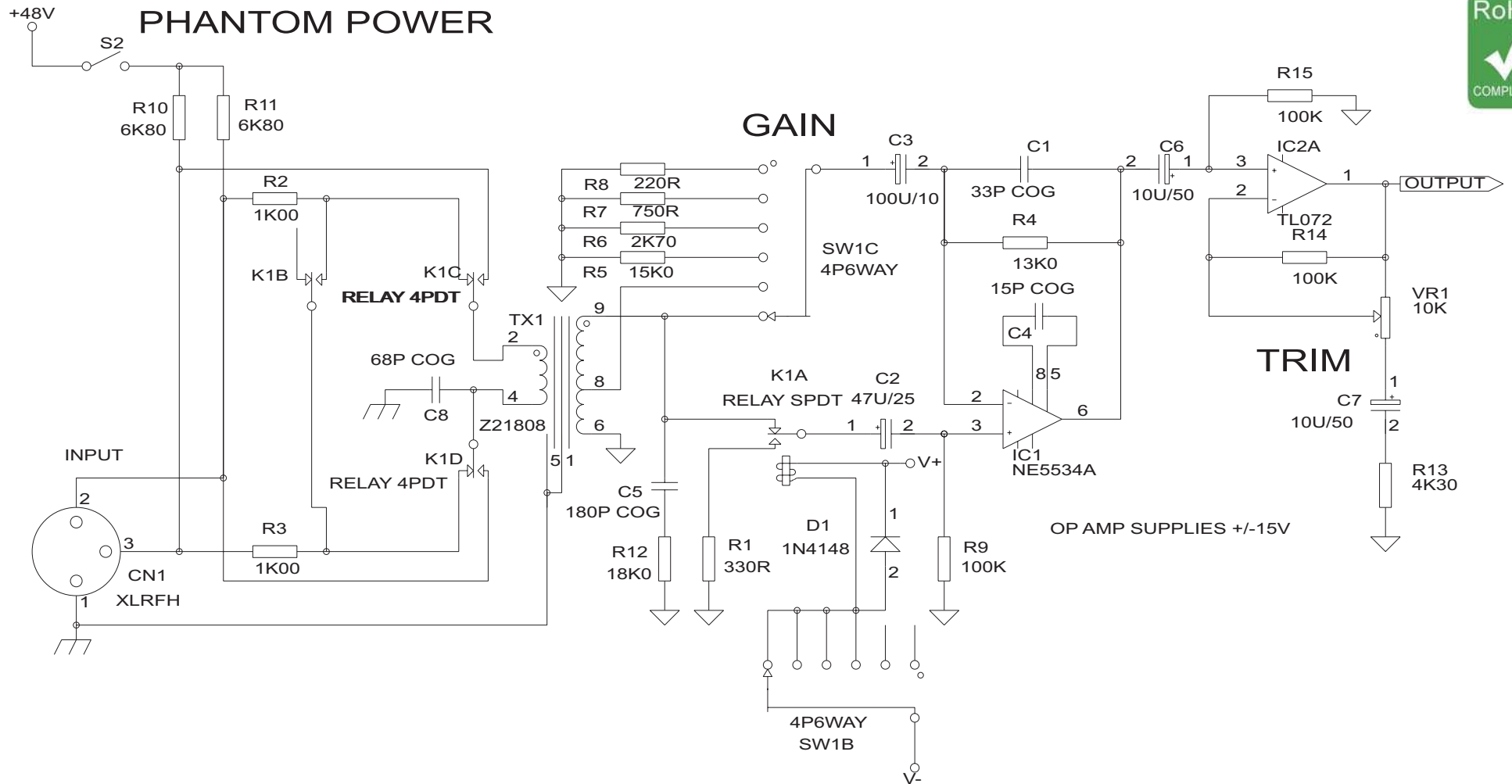


Turns ratio	1: 6 tapped at 1:1.8		
Weight	45g		
Optimum secondary load (2 pole)	100k//180p series 18k		
	Min.	Typ.	Max.
Primary DC resistance (pins 2 - 4)		45Ω	
Secondary DC resistance (pins 6 - 9)		1k5Ω	
Optimal source impedance		150Ω	
LF -3dB point		5Hz	10Hz
HF -3dB point *	65kHz	80kHz	
30Hz max level (3% THD)	-1dBu	+0dBu	
THD (-10dBu, 1kHz)		0.003%	0.006%
CMRR (10kHz)	65dB	75dB	
CMRR (50Hz)	120dB		
Primary inductance @ 100Hz, 0.1V		6.57H	

Tolerance on all dimensions +/-0.2 unless stated otherwise
Pin diameter = 0.71mm
Pins 7 and 10 have no connection
Pin 3 is removed for orientation.

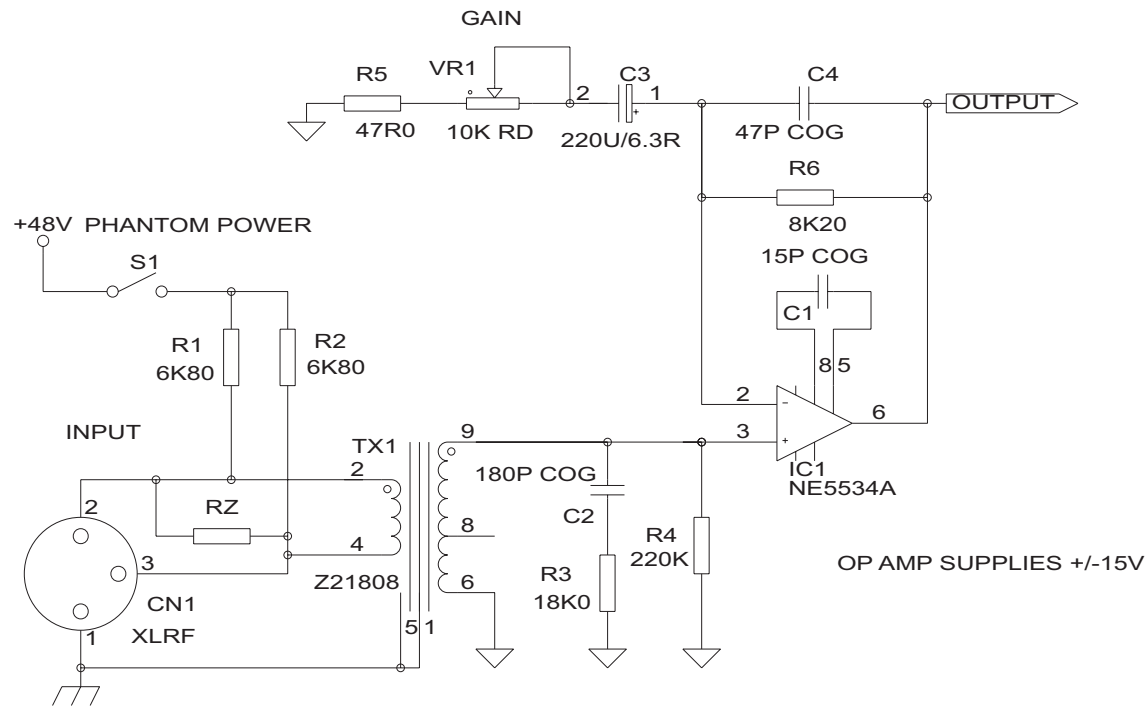
* With 150Ω source resistance, optimum 2 pole secondary termination, screen and case (pins 1 and 5) grounded. Unused pins should be left floating with minimal pad size for best performance.
With 150Ω source resistance and external trimming capacitor as per application circuits.

 Walters Group Holdings Ltd. Unit 5, Oxonian Park, Langford Locks, Kidlington, Oxfordshire. OX5 1FP Tel: (01865) 855085 Fax: (01865) 855075 Website: www.oep.co.uk	DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
	Z21808C: miniature mic. / line input transformer page 1 of 4	1	10/05/06	CS		Z21808C
		3	07/06/10	CS		
		4	02/09/10	CS		
	Scale: nts	All dimensions in mm unless stated otherwise		5	03/09/10	



GAIN STEPS OF 0...+10...+20...+30...+40...+50 & 0...+10dB TRIM
 FREQUENCY RESPONSE <10Hz....>75kHz (-3db)
 EIN <-126dBu AT 50dB GAIN
 30HZ MAX INPUT LEVEL >20dBu @ 0dB GAIN, 0dB @ >10dB GAIN
 CMRR TYPICALLY <75dB @ 10kHz, +20dB GAIN

 Walters Group Holdings Ltd. Unit 5, Oxonian Park, Langford Locks, Kidlington, Oxfordshire. OX5 1FP Tel: (01865) 855085 Fax: (01865) 855075 Website: www.oep.co.uk	DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
	Z21808C wide range mic. pre. circuit page 2 of 4	1	10/05/06	CS		Z21808C
		3	07/06/10	CS		
		4	02/09/10	CS		
	Scale: nts	All dimensions in mm unless stated otherwise	5	03/09/10	CS	

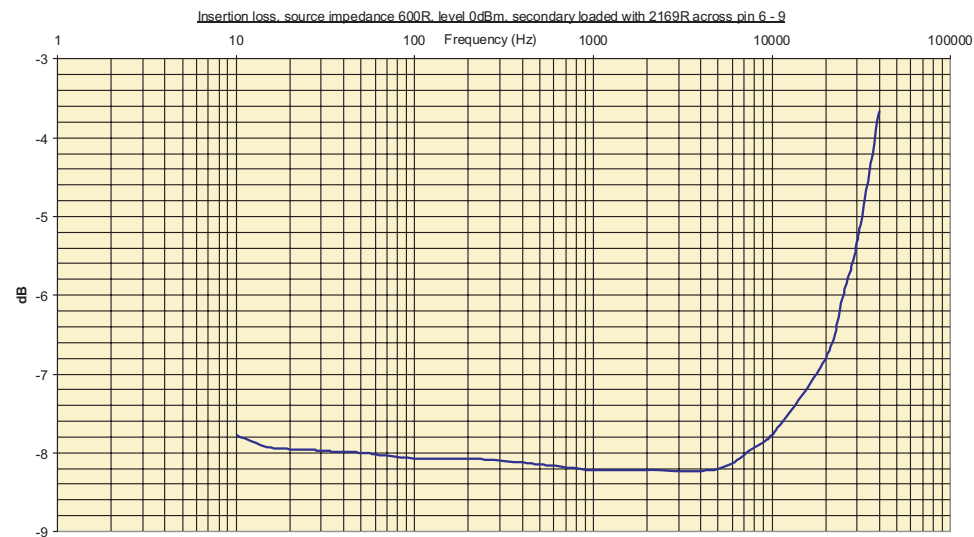
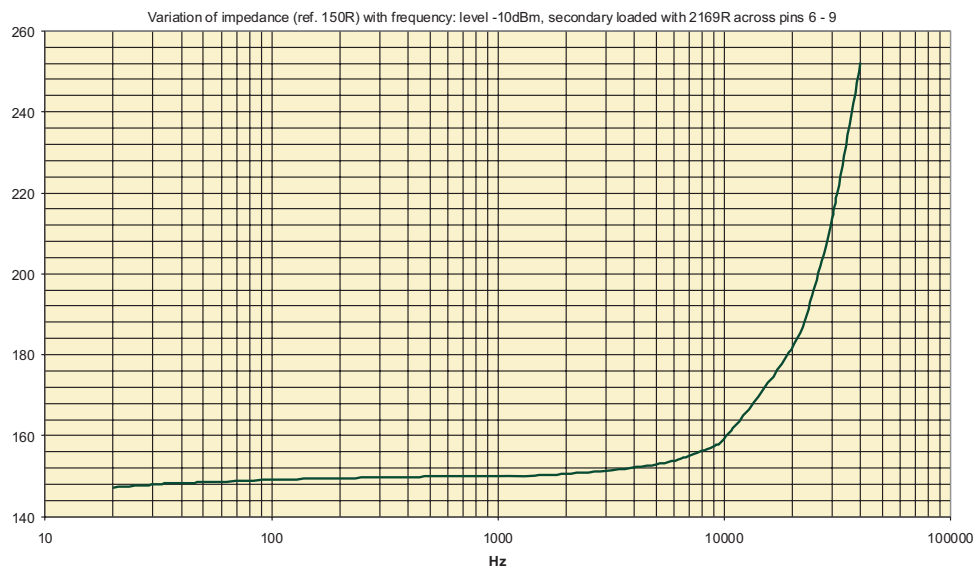
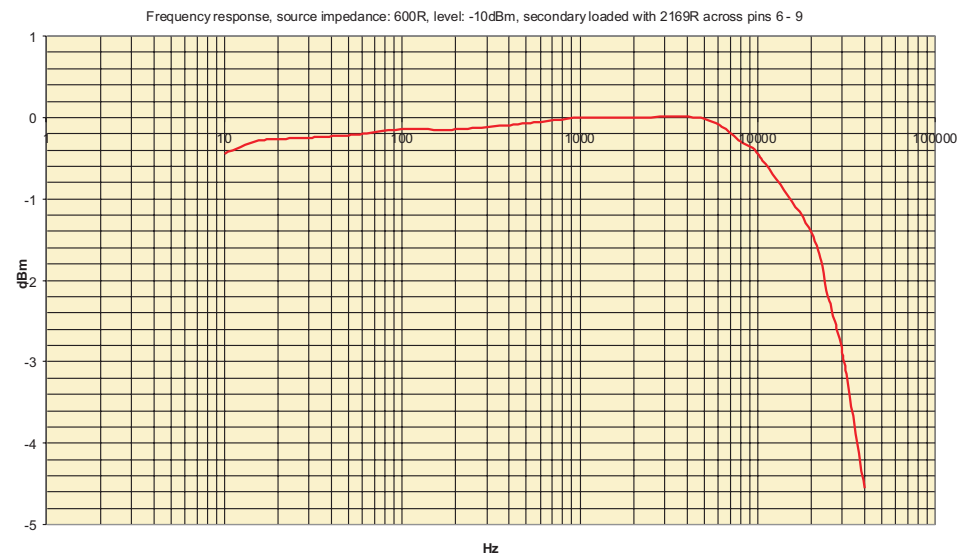
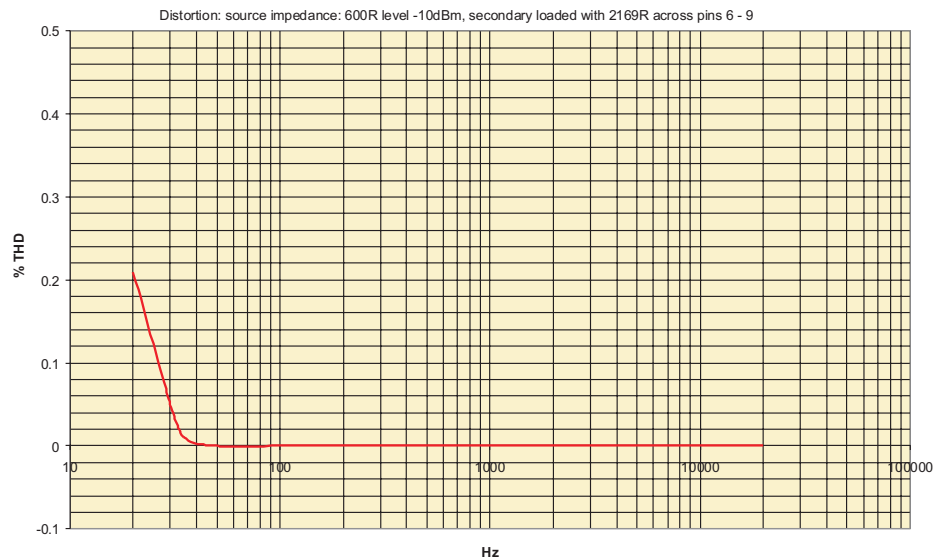


SELECT RZ=2k20 FOR 1k20 ZIN
GAIN RANGE +20....+60 dB
FREQUENCY RESPONSE <10HZ....>75kHz (-3db)
EIN <-126dBu AT 50dB GAIN
30HZ MAX INPUT LEVEL 0dB @ +20dB GAIN
CMRR TYPICALLY 65dB @ 10kHz



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DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
Z21808C simple mic. pre. circuit page 3 of 4	1	10/05/06	CS		Z21808C
	3	07/06/10	CS		
	4	02/09/10	CS		
Scale: nts All dimensions in mm unless stated otherwise	5	03/09/10	CS		



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DESCRIPTION		ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
Z21808C: miniature mic. / line input transformer page 4 of 4		1	10/05/06	CS		Z21808C
		3	07/06/10	CS		
		4	02/09/10	CS		
Scale: nts	All dimensions in mm unless stated otherwise	5	03/09/10	CS		