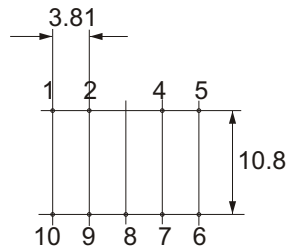
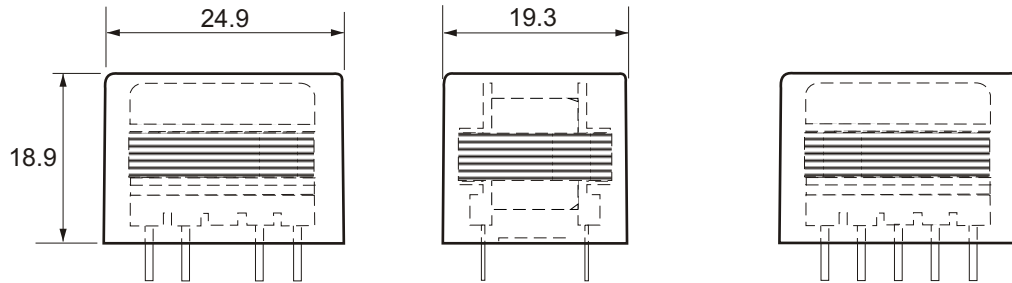
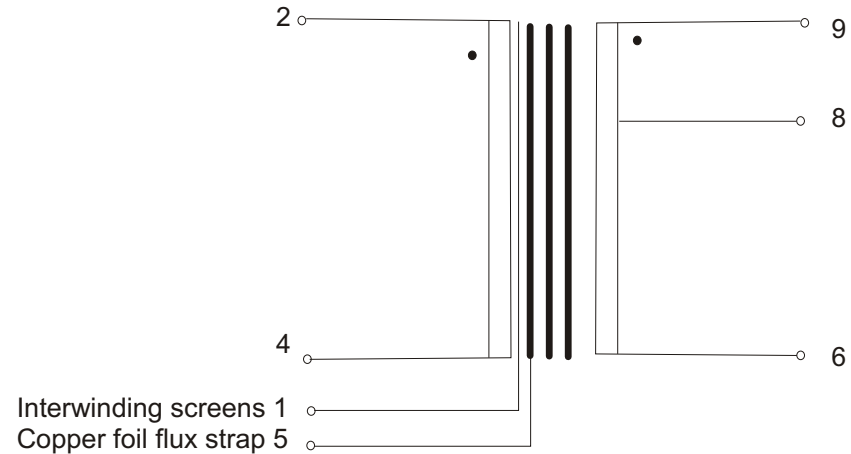
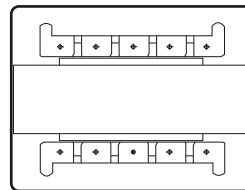


This device is intended for microphone input stages optimised for medium source impedance (~5k), typical of medium Rbb bipolar transistors and operational amplifiers such as the NE5534. It can also be used for line level inputs when used in current mode active input circuits.



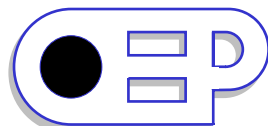
Pin view



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)		45	
Secondary DC resistance (pins 6 - 9)		1k5	
Optimal source impedance		150	
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	

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

* With 150 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 150 source resistance and external trimming capacitor as per application circuits.

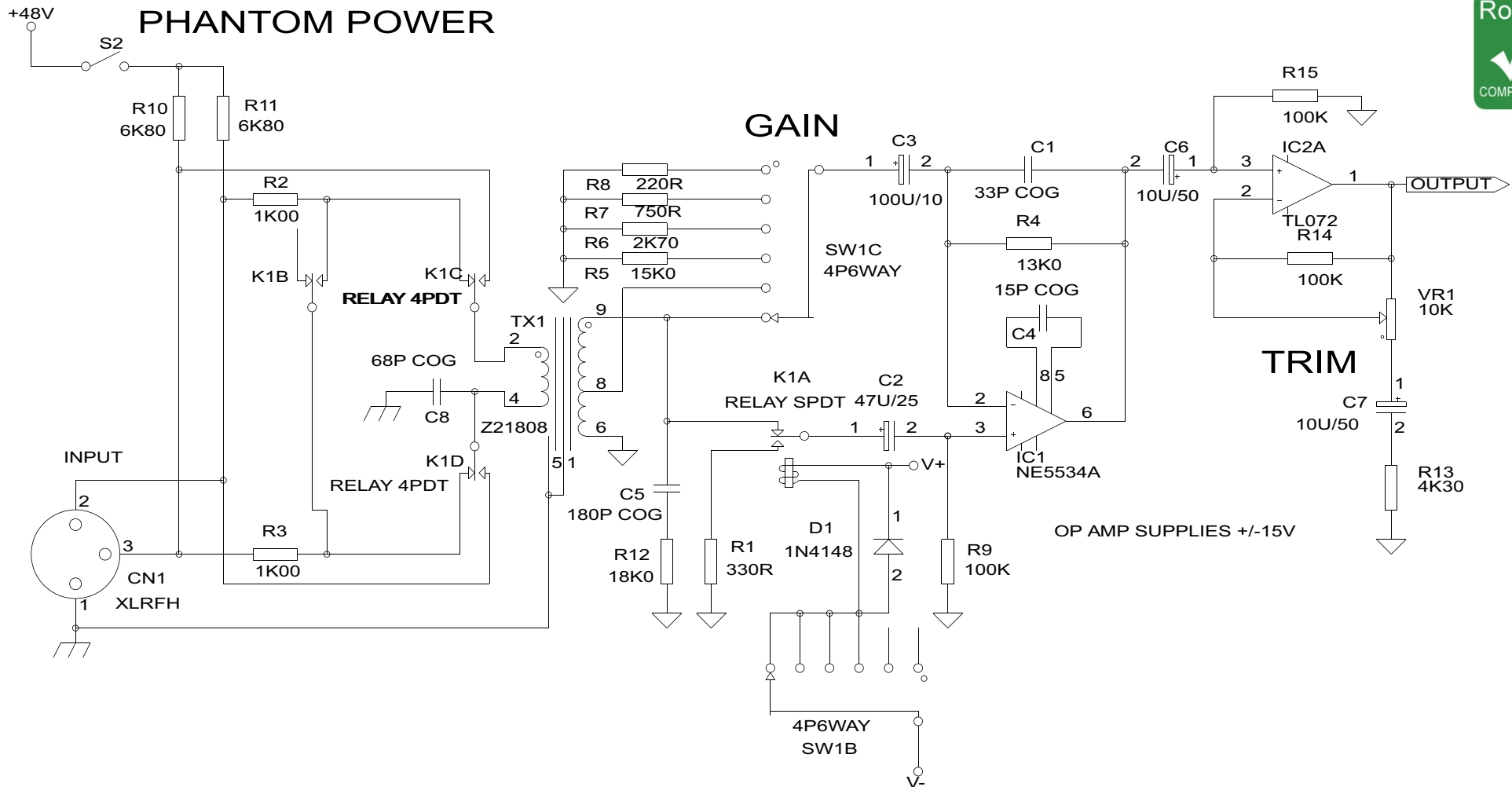


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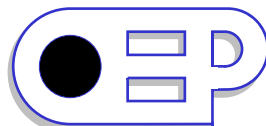
DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
Z21808C: miniature mic. / line input transformer page 1 of 4	1	10/05/06	CS		Z21808C
	5	03/09/10	CS		
	6	26/01/15	CS		
	7	21/05/15	CS		

Scale: nts

All dimensions in mm unless stated otherwise



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

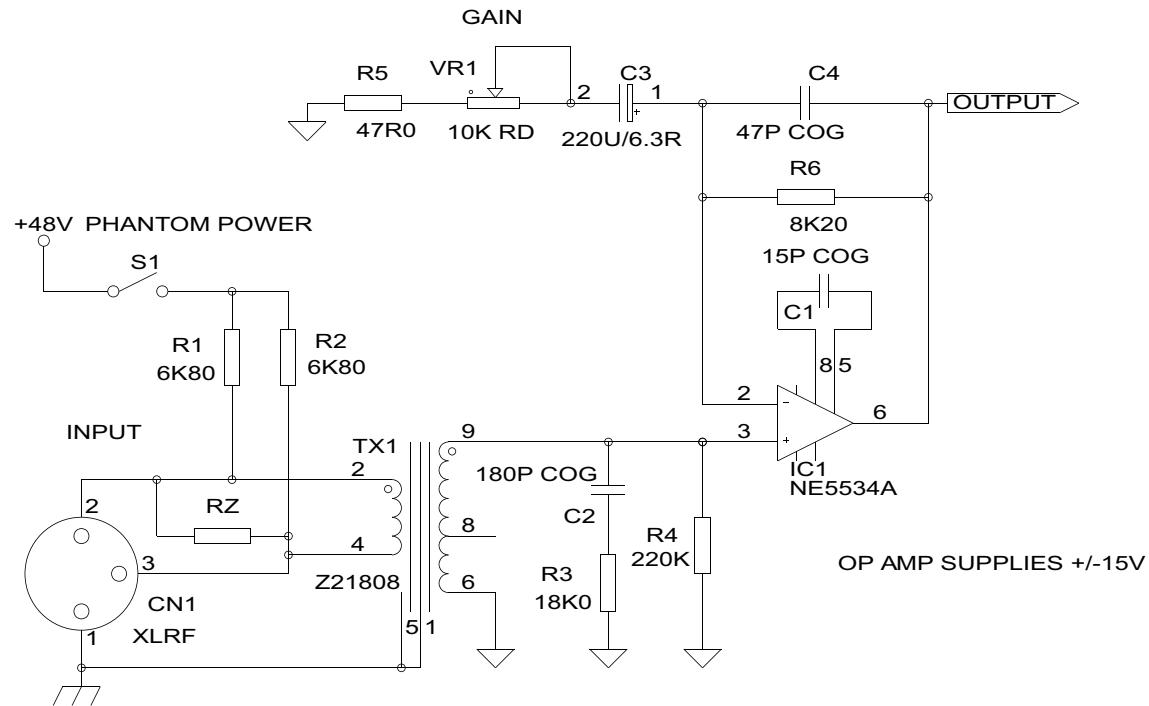


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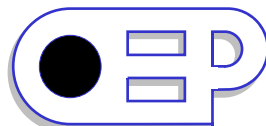
DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
Z21808C wide range mic. pre. circuit page 2 of 4	1	10/05/06	CS		Z21808C
	5	03/09/10	CS		
	6	26/01/15	CS		
	7	21/05/15	CS		

Scale: nts

All dimensions in mm unless stated otherwise



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

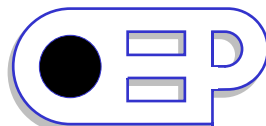
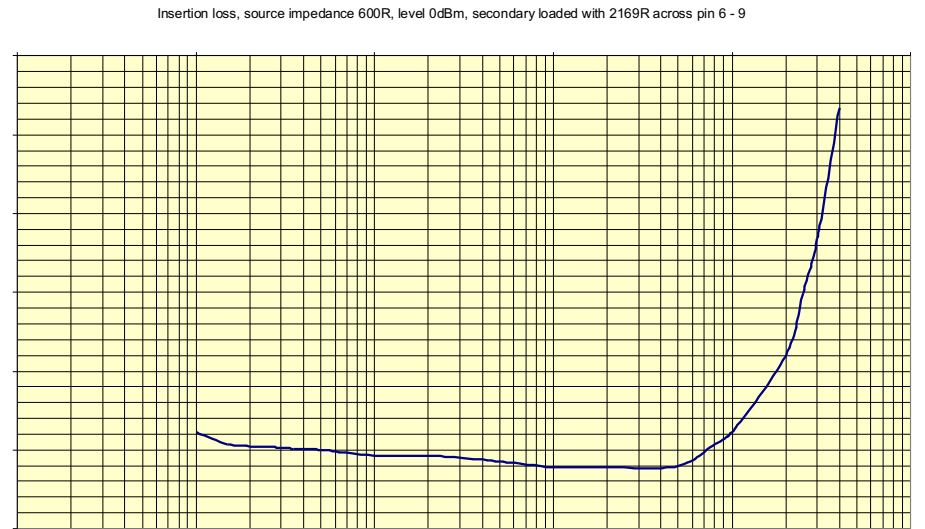
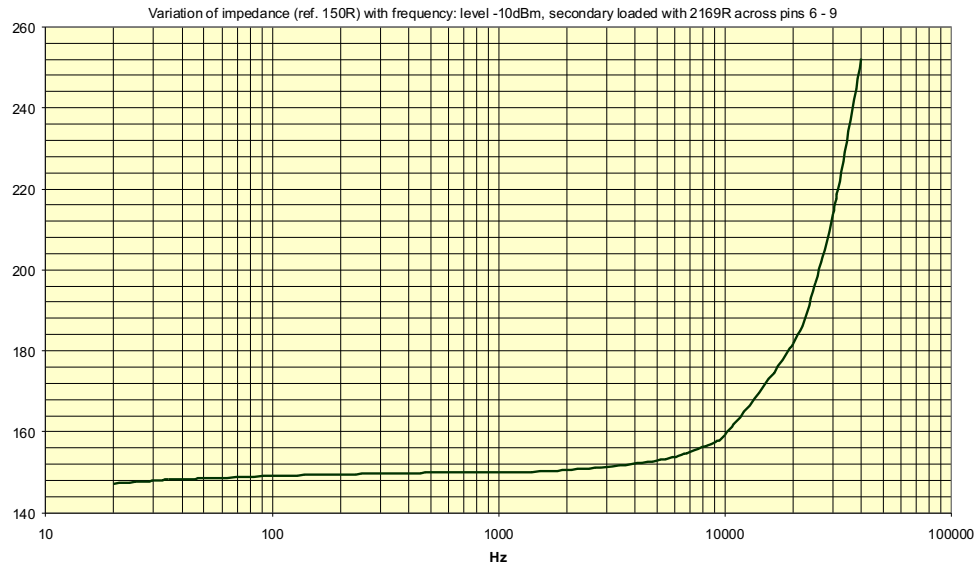
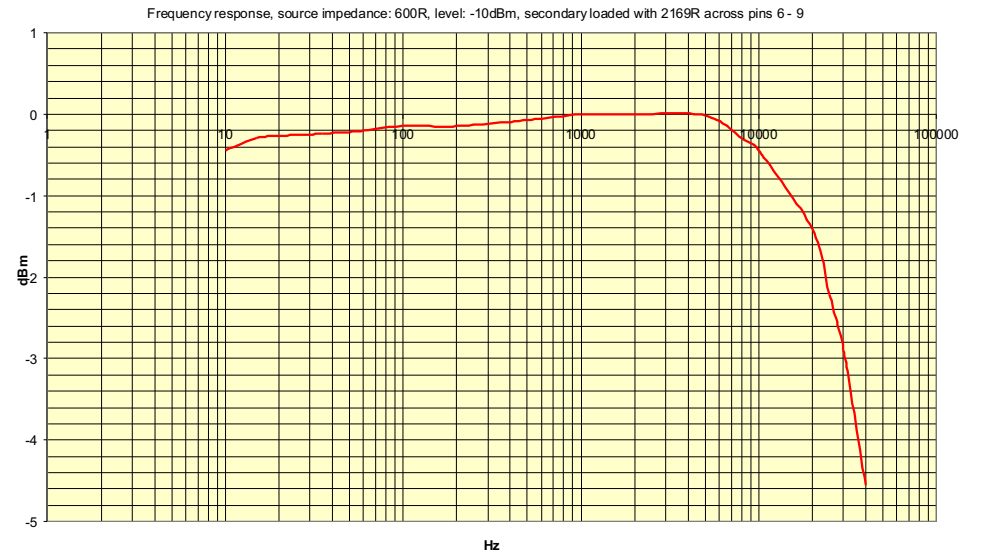
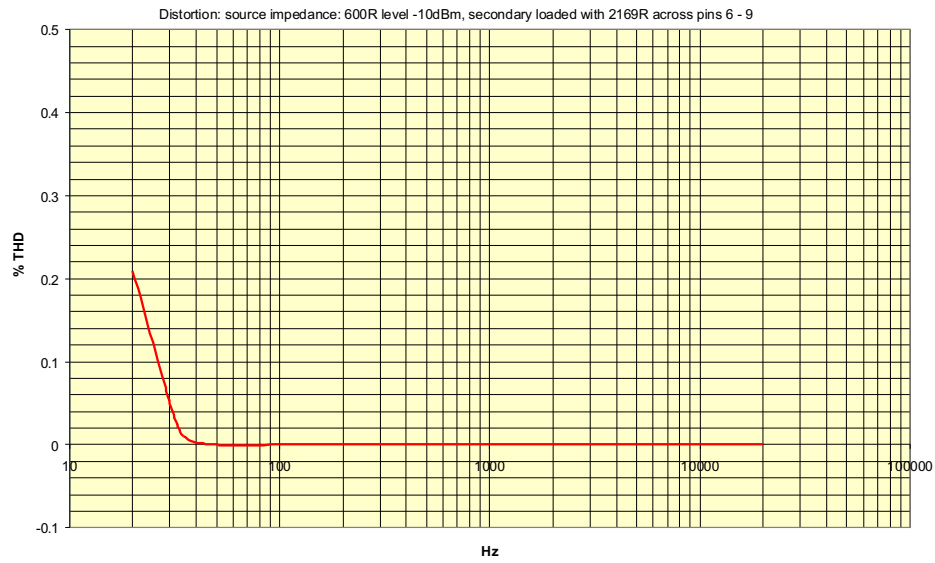


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DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
Z21808C simple mic. pre. circuit page 3 of 4	1	10/05/06	CS		Z21808C
	5	03/09/10	CS		
	6	26/01/15	CS		
	7	21/05/15	CS		

Scale: nts

All dimensions in mm unless stated otherwise



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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
	5	03/09/10	CS		
	6	26/01/15	CS		
	7	21/05/15	CS		

Scale: nts

All dimensions in mm unless stated otherwise