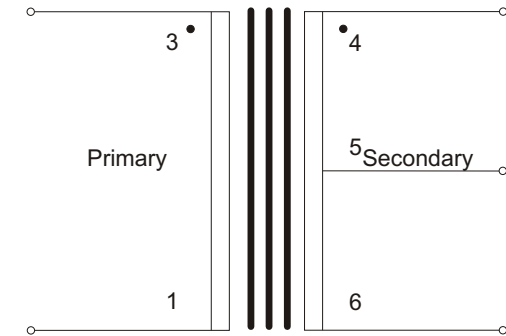
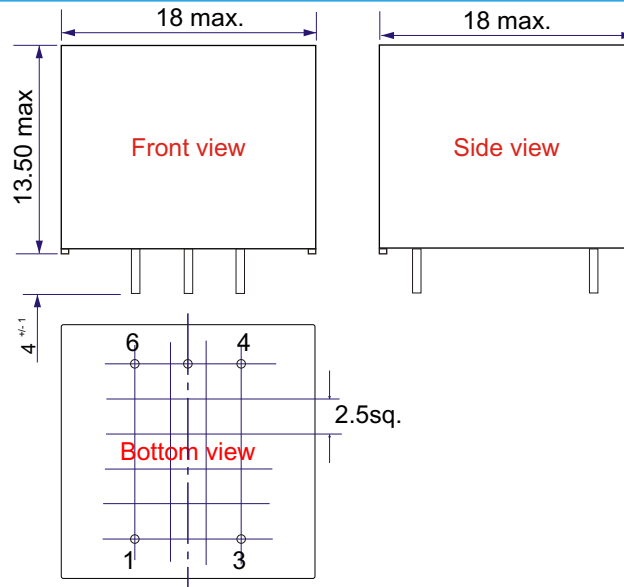
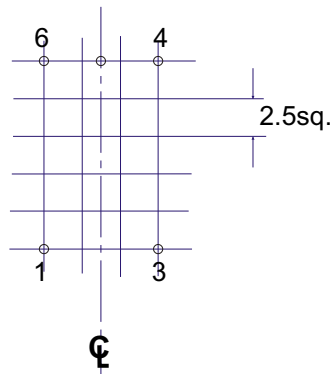


YY WW = date code



Electrical schematic  
● = electrical start



**Electrical characteristics:**

Impedance ratio: 10k to 10k C.T.  
Turns ratio (@ 6 kHz, 0.1Vrms): 1 to 1 C.T.

DC resistance ( +/-15%)  
Primary (3 - 1): 658  
Secondary (4 - 6): 837  
Voltage gain @ 1kHz: -1.28dBu (typ.)  
Maximum input @ 30Hz for <1% THD: +4dBu  
Maximum input @ 20Hz for <1% THD: -1.5dBu  
Open circuit input impedance: 595k (typ.)

Primary leakage inductance @ 1kHz: 22mH (typ.)  
Interwinding capacitance @ 10kHz: 56pF (typ.)

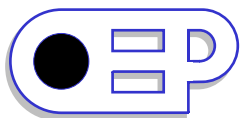
**Applications and features:**

+4dBu drive level for >30Hz  
High Z unbalanced to balanced conversion  
Circuit isolation  
Hum and buzz elimination  
Better than -0.1dB down at 10Hz (@ -20dBu)  
Frequency response +/-0.2dB 10Hz - 20kHz

Proof voltage:  
Primary to secondary: 500VDC

Operating temperature range: 0 to +70°C  
Storage temperature range: -40°C to +125°C

Tolerance on all hole positions +/-0.2mm  
Pin diameter = 0.6mm  
Recommended PCB hole size: 1.0mm



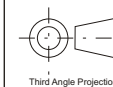
Carnhill Transformers Ltd. T/A OEP

Unit 5, Oxonian Park, Langford Locks,  
Kidlington, Oxfordshire. OX5 1FP  
Tel: (01865) 855085 Fax: (01865) 855075  
Website: [www.carnhill.co.uk](http://www.carnhill.co.uk)



Scale: NTS

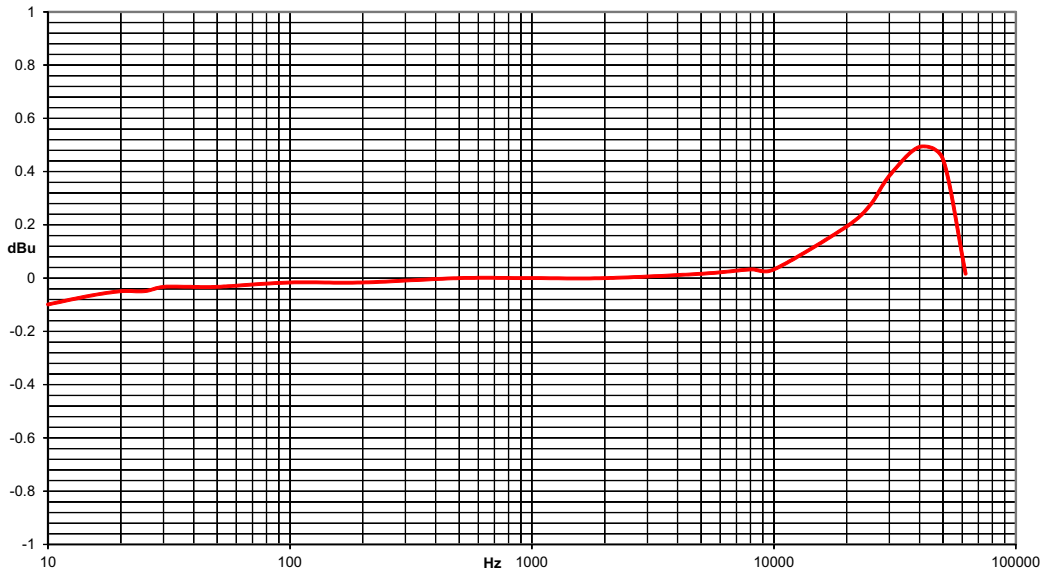
1:1 C.T. 10k line input transformer  
page 1 of 3



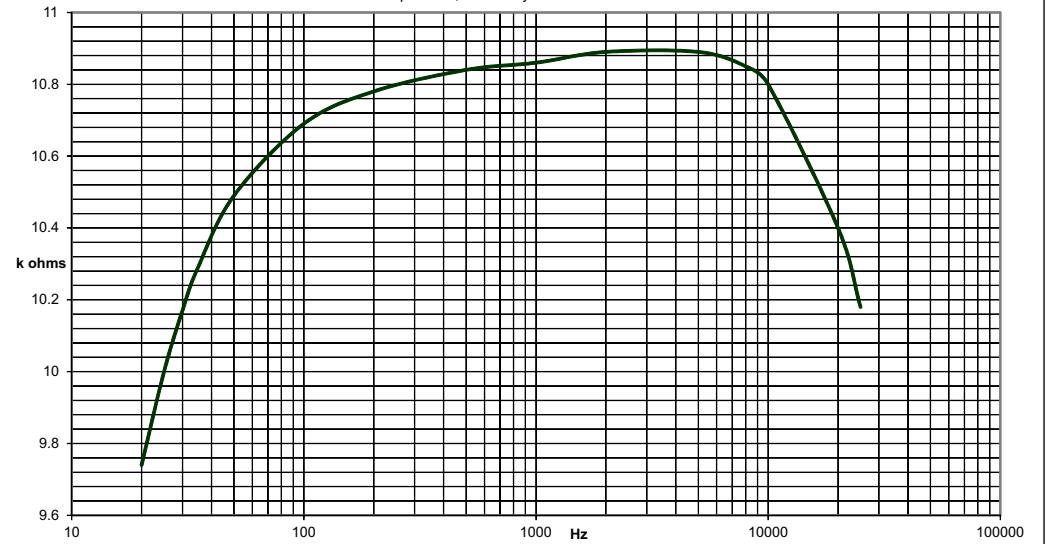
All dimensions in mm unless stated otherwise

ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
1	02/07/08	CS		<b>Z1643E</b>
5	30/04/15	CS		
6	08/08/22	CS		
7	30/01/24	CS		

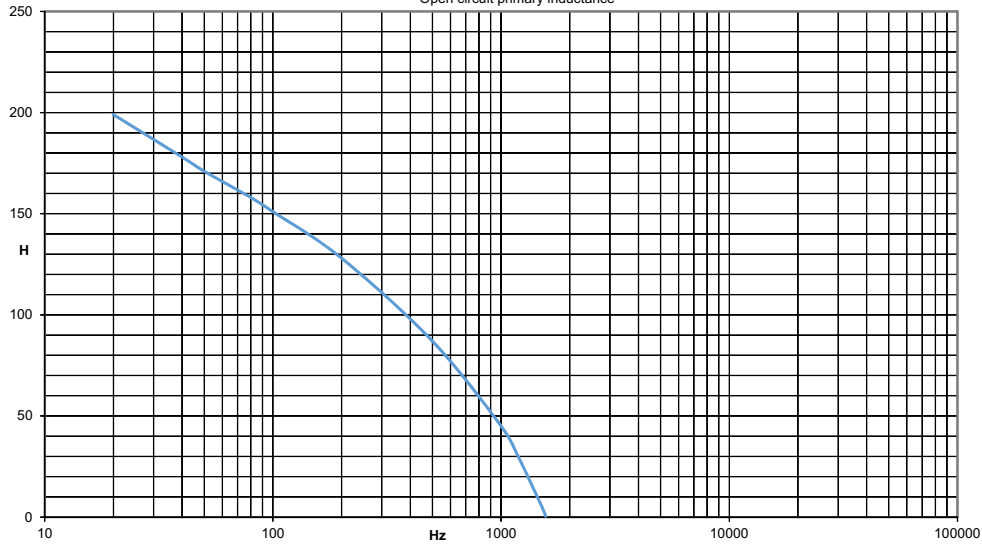
Frequency response, source: -2dBu, secondary loaded with 10k



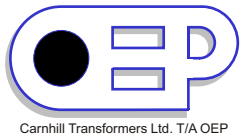
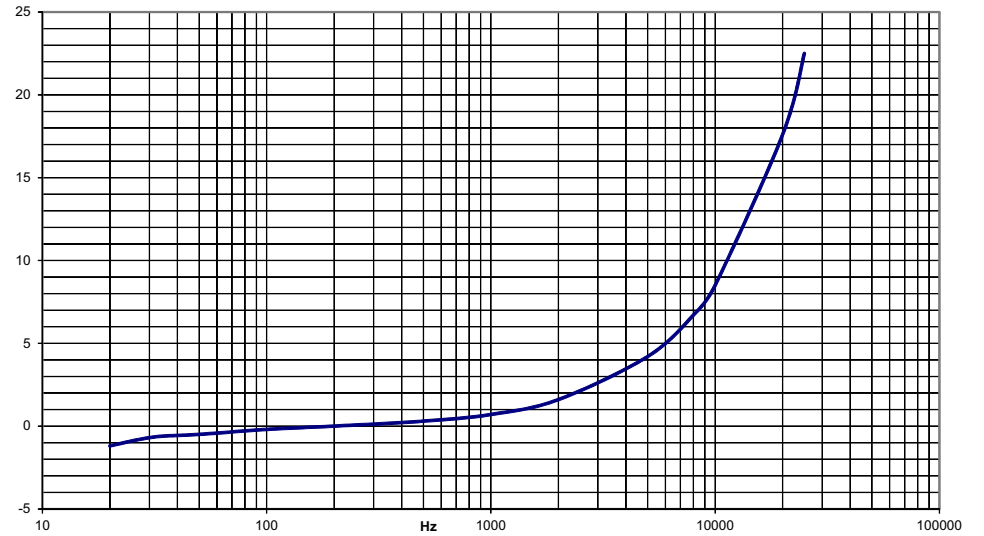
Variation of reflected impedance, secondary loaded with 10k



Open circuit primary inductance



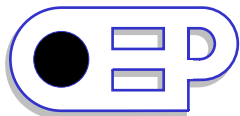
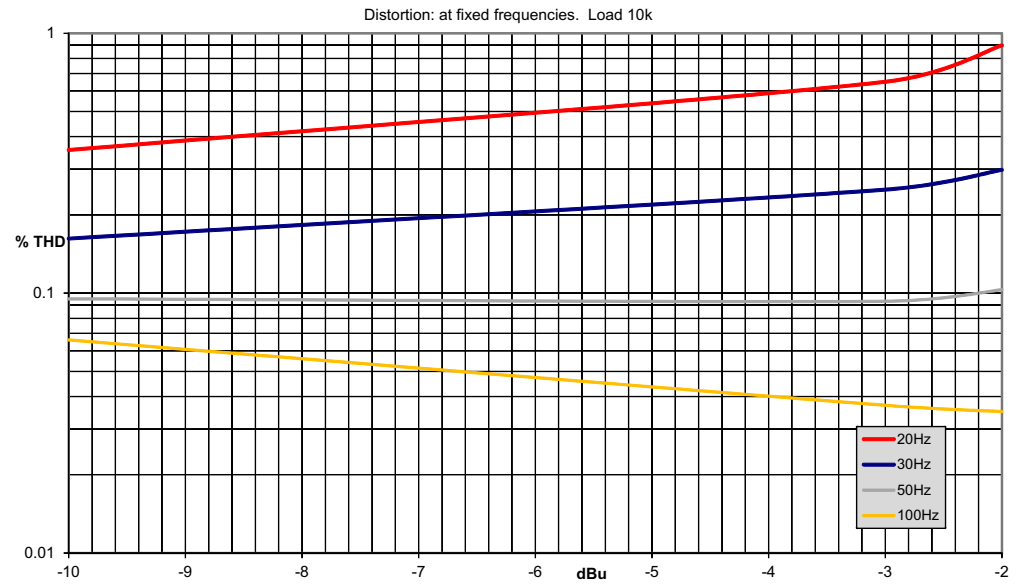
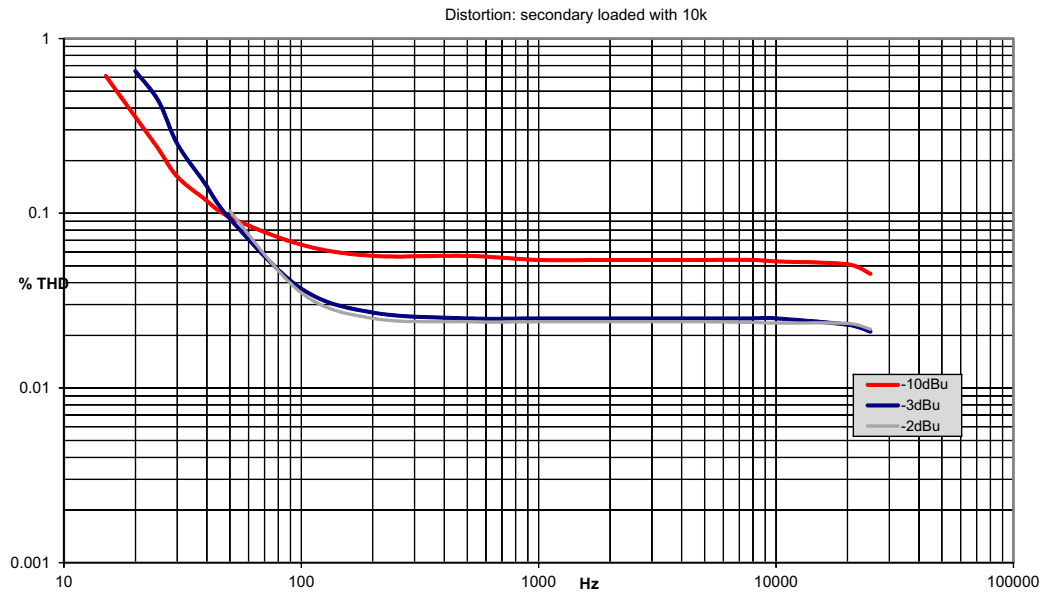
Variation of phase with frequency: level -2dBu, secondary loaded with 10k



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DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
1:1 C.T. 10k line input transformer page 2 of 3	1	02/07/08	CS		<b>Z1643E</b>
	5	30/04/15	CS		
	6	08/08/22	CS		
	7	30/01/24	CS		

Scale: N A All dimensions in mm unless stated otherwise



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Scale: N A

DESCRIPTION

1:1 C.T. 10k line input transformer  
page 3 of 3

All dimensions in mm unless stated otherwise

ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
1	02/07/08	CS		<b>Z1643E</b>
5	30/04/15	CS		
6	08/08/22	CS		
7	30/01/24	CS		