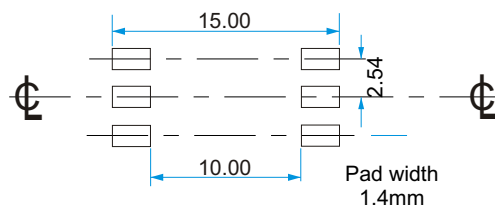
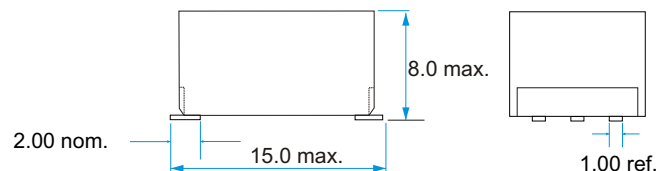
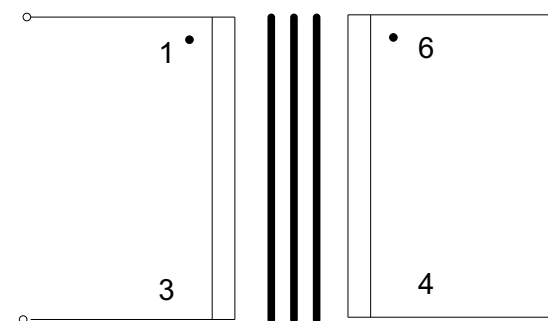


Part number
YYWW = date code



Suggested PCB layout



Electrical schematic

Electrical specification:

Ratio: 1 to 1

DC resistance (sum of windings): 200 - 245

Designed for matching 600

Parallel inductance, pins 1 - 3: see page 2

Leakage inductance: (10mVrms, 1kHz) pins 6-4 S/C: 4.4mH max.

Interwinding capacitance (1kHz - 10kHz): 4pF (typ.)

Voltage gain @1kHz, 0dBu: -3.46dBu

Maximum input @ 100Hz for <1%THD: -3dBu

Maximum input @ 200Hz for <1% THD: 5dBu

Return loss: (ref. 430 ohms) see page 3

Insertion loss: (ref. 600 ohms, 2kHz): 2dB max.

(ref. 430 ohms, 2kHz): 4dB max.

Frequency response: 100 - 8kHz: +/- 0.2dB

Longitudinal balance: 200Hz - 4kHz: 80dB min.

Turns ratio (@ 6kHz, 0.1Vrms), pins 1 - 3 to 6 - 4: 1.00 +/-1%

Distortion: see page 3

Saturation: 10Vrms max. @ 250VRMS, 50/60Hz

Hi-pot, primary to secondary: 4000VAC, 1mA for 2 seconds

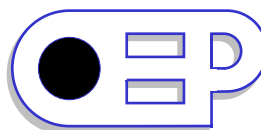
Operating temperature range: -20 to +85°C

Storage temperature range: -40 to +125°C

Certified to EN62368-1

RoHS process compliant.

Note: Do not pass DC current through windings.

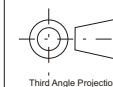


Unit 5, Oxonian Park, Langford Locks,
Kidlington, Oxfordshire. OX5 1FP
Tel: (01865) 855085 Fax: (01865) 855075
Website: www.carnhill.co.uk



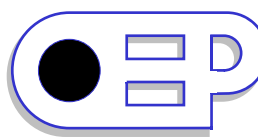
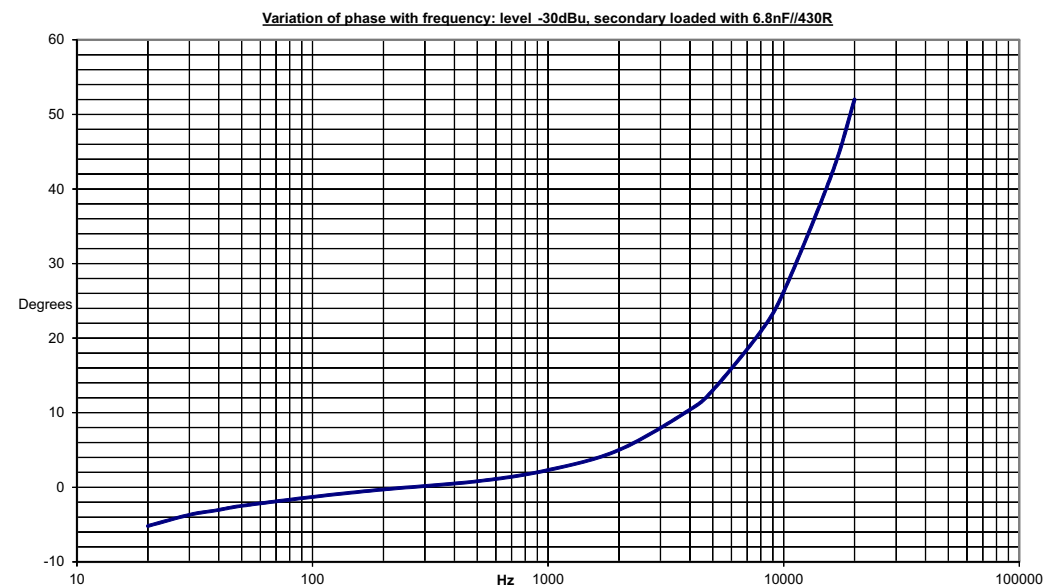
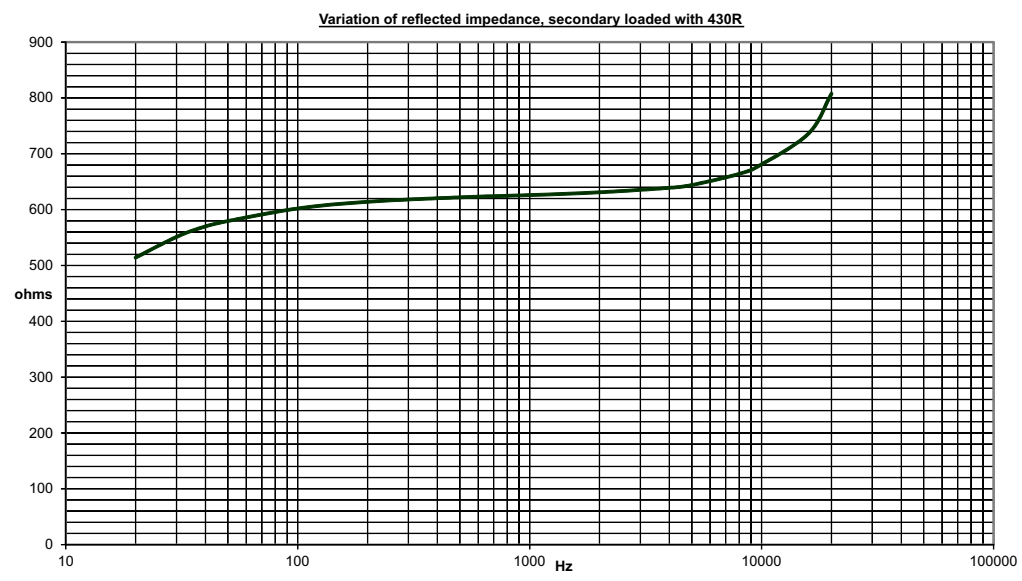
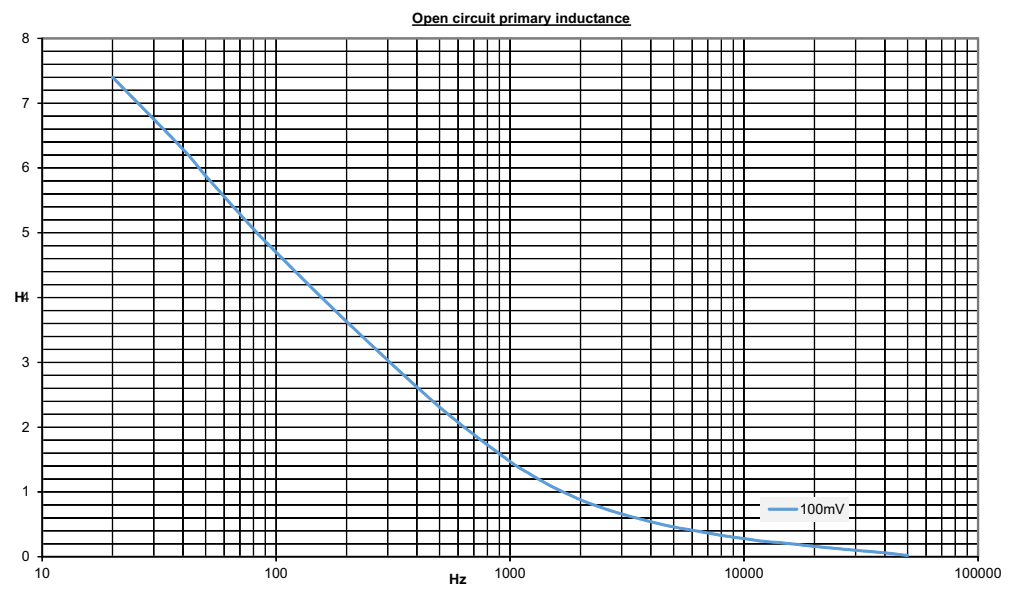
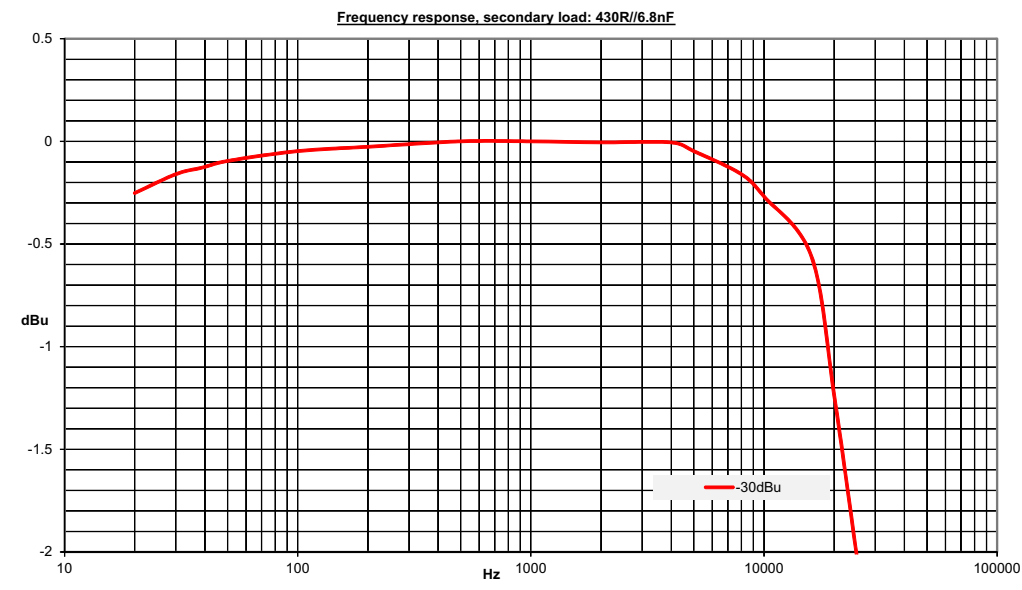
Scale: nts

DESCRIPTION
Specification for OEP8000
page 1 of 3



Third Angle Projection

ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
1	29/04/04	CS		OEP8000
14	17/11/21	CS		
15	04/04/23	CS		
16	05/03/24	CS		



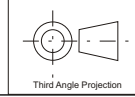
Unit 5, Oxonian Park, Langford Locks,
Kidlington, Oxfordshire. OX5 1FP
Tel: (01865) 855085 Fax: (01865) 855075
Website: www.carnhill.co.uk



Scale: nts

DESCRIPTION

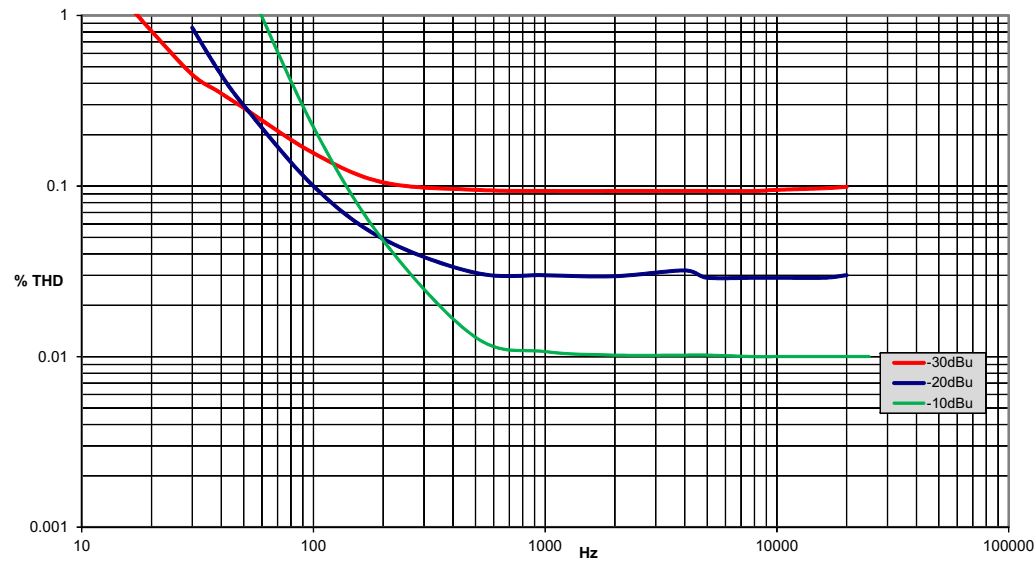
Specification for OEP8000
page 2 of 3



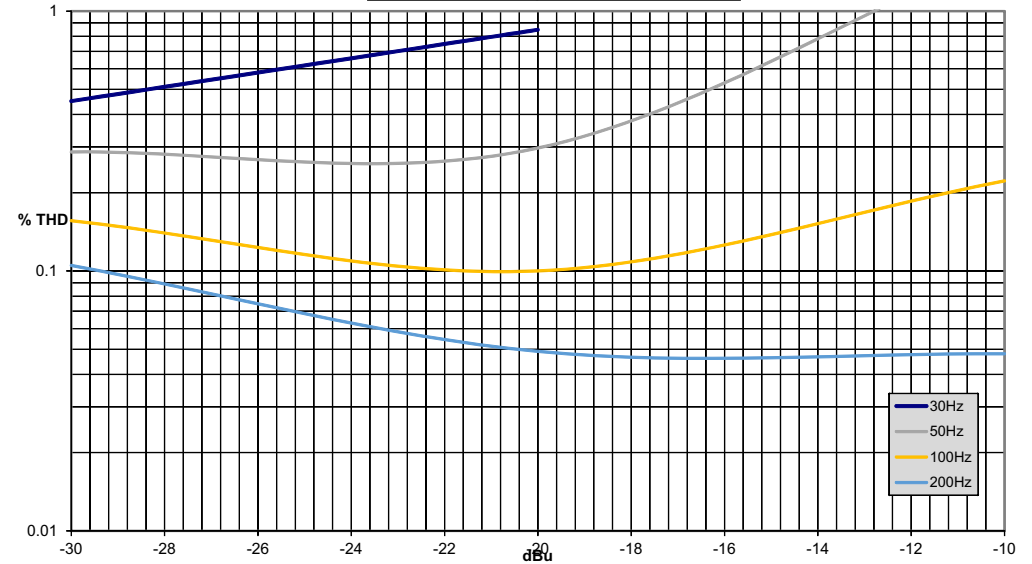
All dimensions in mm unless stated otherwise

ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
1	29/04/04	CS		OEP8000
14	17/11/21	CS		
15	04/04/23	CS		
16	05/03/24	CS		

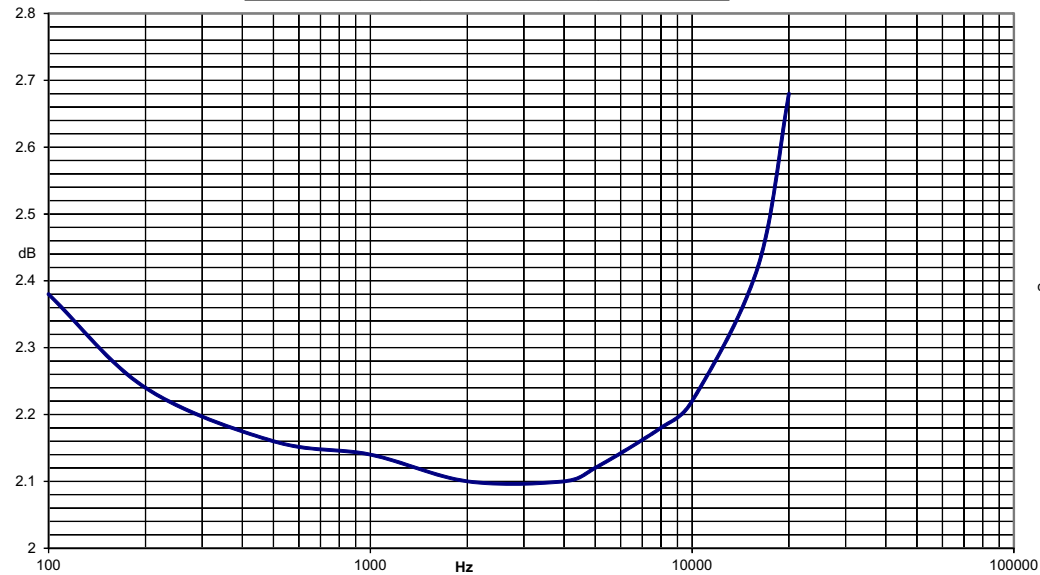
Distortion: secondary loaded with 6.8nF//430R



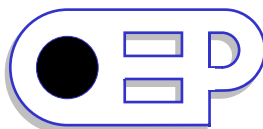
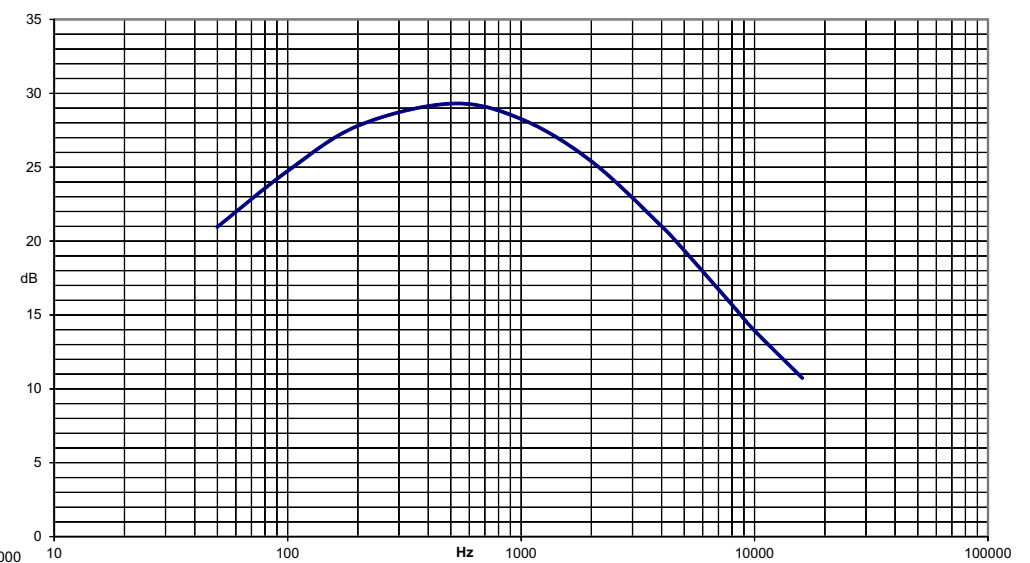
Distortion: at fixed frequencies. Load 6.8nF//430R



Insertion loss v frequency: level -30dBu, secondary loaded with 430R



Return loss v frequency: level -30dBu, secondary loaded with 430R



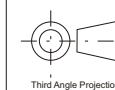
Unit 5, Oxonian Park, Langford Locks,
Kidlington, Oxfordshire. OX5 1FP
Tel: (01865) 855085 Fax: (01865) 855075
Website: www.carnhill.co.uk



Scale: nts

DESCRIPTION

Specification for OEP8000
page 3 of 3



All dimensions in mm unless stated otherwise

ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
1	29/04/04	CS		OEP8000
14	17/11/21	CS		
15	04/04/23	CS		
16	05/03/24	CS		