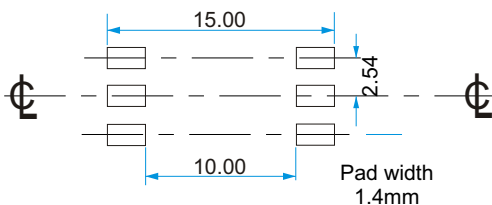
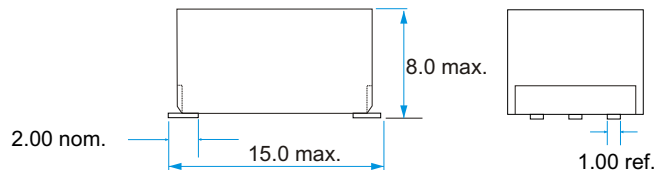
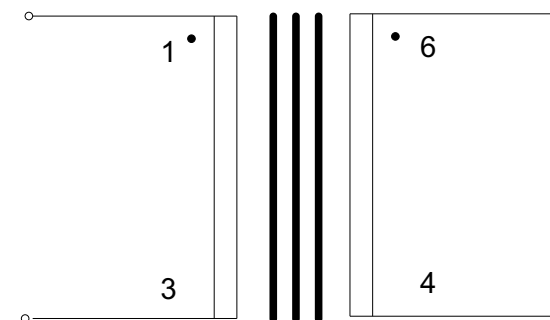


Part number
YYWW = date code



Suggested PCB layout



Electrical schematic

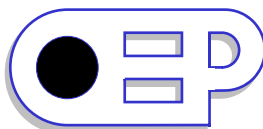
Electrical specification:

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.

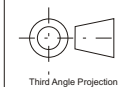


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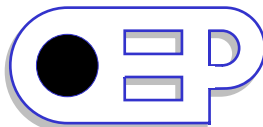
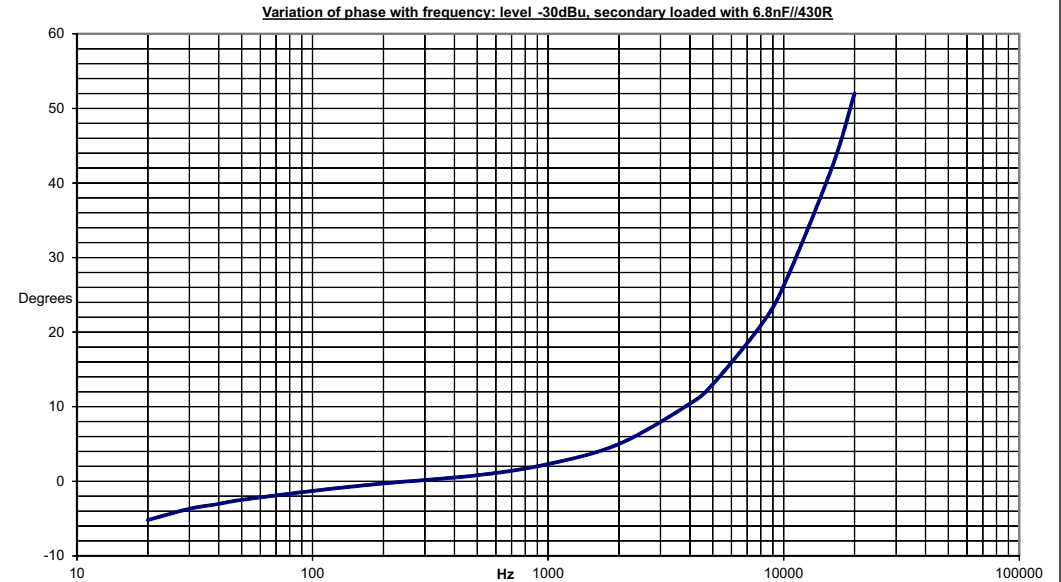
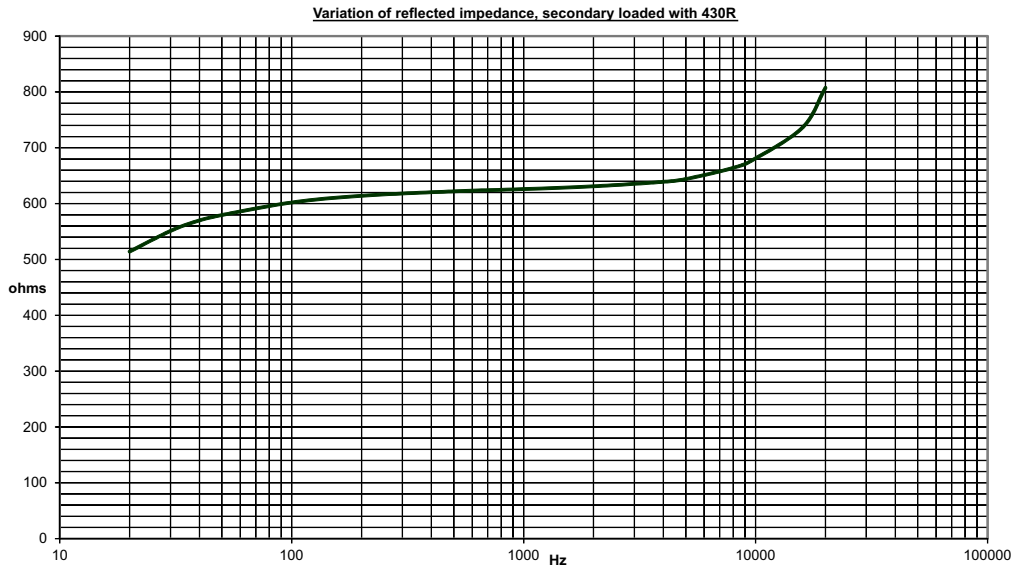
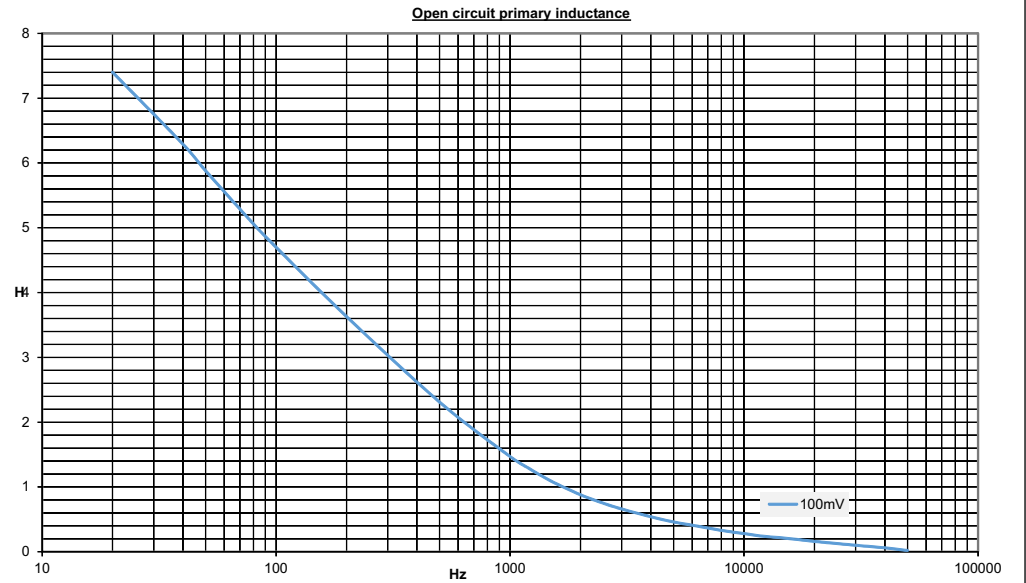
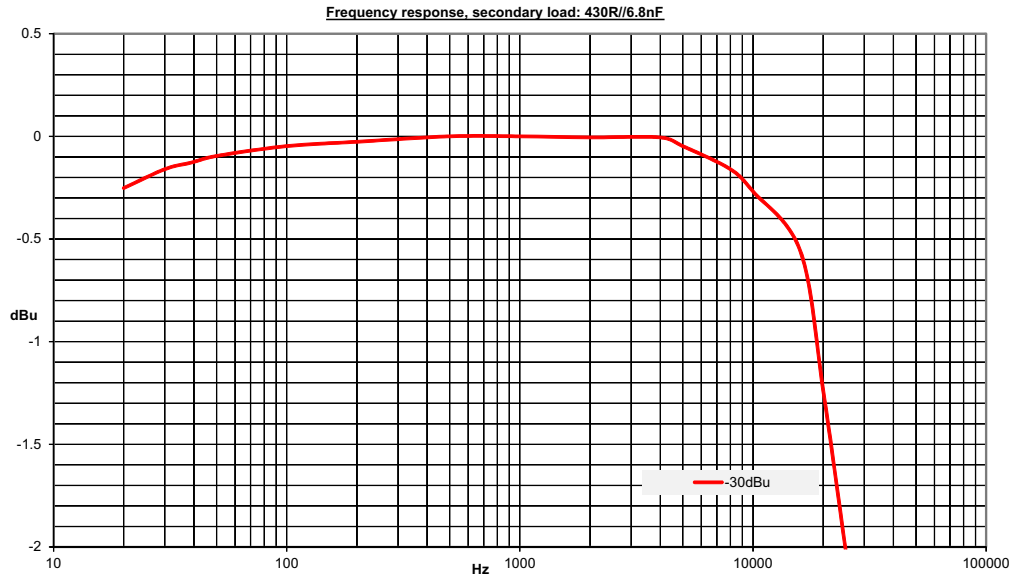
Scale: nts

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 | | |



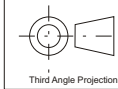
Unit 5, Oxonian Park, Langford Locks,
Kidlington, Oxfordshire. OX5 1FP
Tel: (01865) 855085 Fax: (01865) 855075
Website: www.carnhill.co.uk



Scale: nts

DESCRIPTION

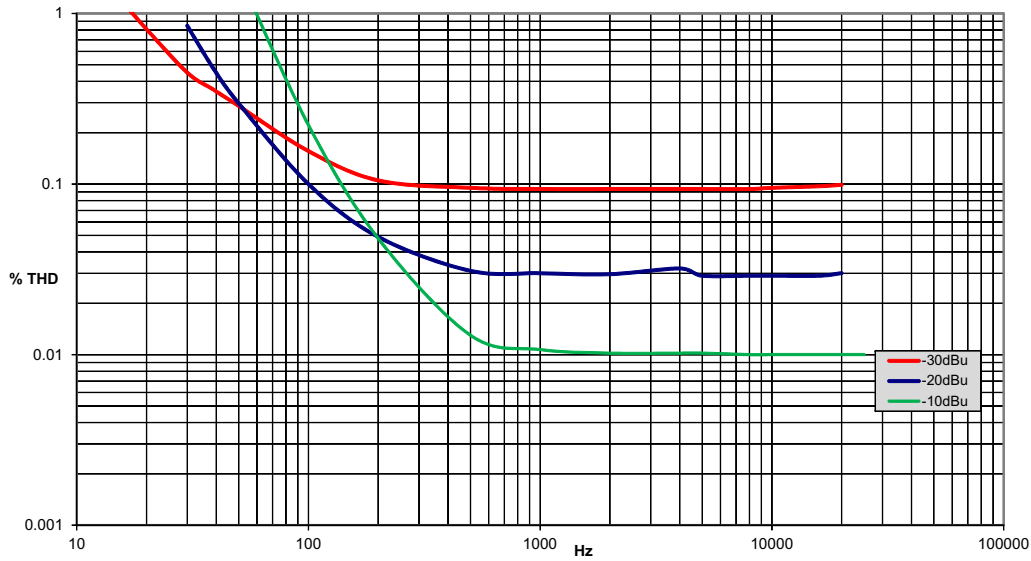
Specification for OEP8000
page 2 of 3



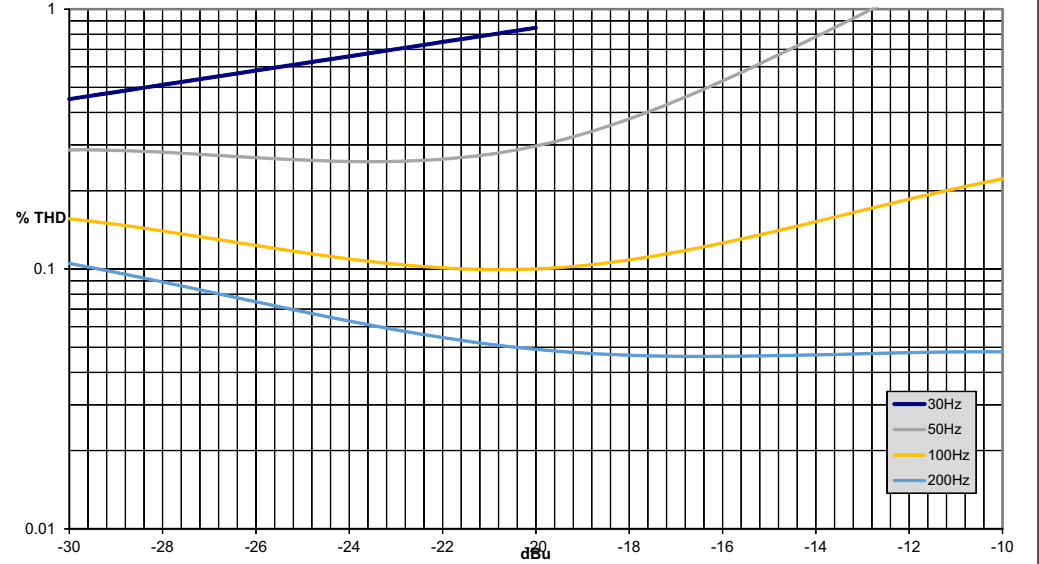
All dimensions in mm unless stated otherwise

| 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 | | |

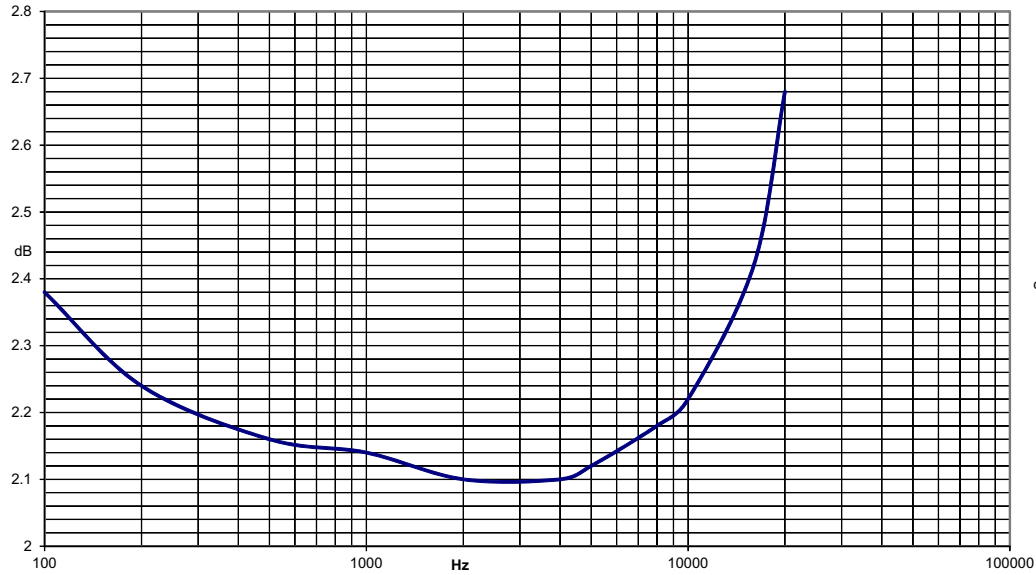
Distortion: secondary loaded with 6.8nF//430R



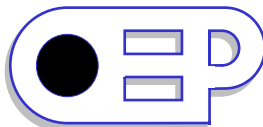
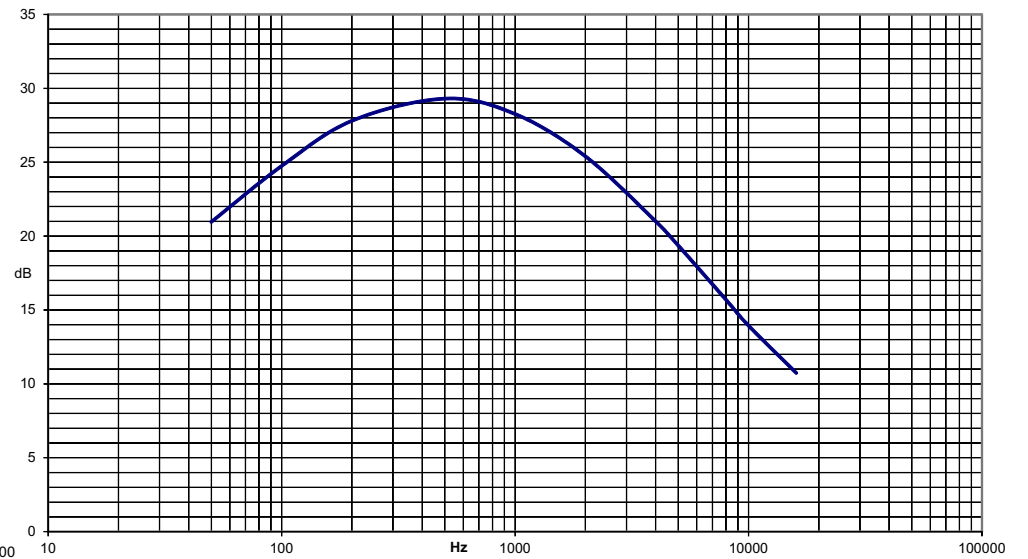
Distortion: at fixed frequencies. Load 6.8nF//430R



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



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



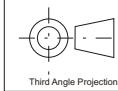
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Scale: nts

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 | | |