



29/05/2009

## SPECIFICATION SHEET

|                         |                            |             |
|-------------------------|----------------------------|-------------|
| <b>Speaker type:</b>    | <b>B171-8</b>              |             |
| <b>Model number :</b>   | <b>SP</b>                  | <b>1361</b> |
| Upgrade                 | 1                          |             |
| <b>Cooling system :</b> | Natural convection cooling |             |

### Typical characteristics

|                                |                   |              |           |
|--------------------------------|-------------------|--------------|-----------|
| Rated impedance                | Z                 | $\Omega$     | 8         |
| Half space sensitivity (1W@1m) | -                 | dB SPL       | 93        |
| Usable freq. range             | -                 | Hz           | 40-4000   |
| Power handling capacity (AES)  | -                 | W            | 100       |
| Max Sound Pressure Level       | SPLmax            | dB SPL       | 109       |
| Min. impedance modulus         | Zmin              | $\Omega$ @Hz | 6.6 @ 360 |
| Voice-coil inductance @ 1kHz   | Le <sub>1k</sub>  | mH           | 0.64      |
| Voice-coil inductance @ 10kHz  | Le <sub>10k</sub> | mH           | 0.23      |
| BL product                     | BL                | N/A          | 8.8       |
| Moving mass                    | Mms               | kg           | 0.012     |

### Thiele-Small parameters: Typical (QC limits)

|                                  |                      |                           |           |
|----------------------------------|----------------------|---------------------------|-----------|
| Resonance frequency              | Fs                   | Hz                        | 45(±6)    |
| DC Resistance                    | Re                   | $\Omega$                  | 6.1(±0.6) |
| Mechanical quality factor        | Qms                  | 1                         | 3.6       |
| Electrical quality factor        | Qes                  | 1                         | 0.27      |
| Total quality factor             | Qts                  | 1                         | 0.25      |
| Mechanical suspension compliance | Cms                  | $10^{-6}$ .m/N            | 1050      |
| Effective piston area            | Sd                   | m <sup>2</sup>            | 0.0143    |
| Equivalent Cas air load          | Vas                  | m <sup>3</sup>            | 0.03      |
| Max linear excursion             | Xmax                 | ±mm                       | 3.5       |
| Linear displacement volume       | Vd                   | $10^{-3}$ .m <sup>3</sup> | 0.05005   |
| Reference efficiency             | $\eta_0$             | %                         | 1         |
| Unity load volume                | Vas.Qts <sup>2</sup> | $10^{-3}$ .m <sup>3</sup> | 1.8       |

### Absolute maximum ratings

|                               |      |     |            |
|-------------------------------|------|-----|------------|
| Short term max. input voltage | Vmax | V   | 60         |
| Max.excursion before damage   | Xdam | ±mm | 8          |
| Ambient operating temperature | Ta   | °C  | -10 to +50 |
| Storage temperature           | -    | °C  | -20 to +70 |
| Environmental withstanding    | -    | -   | Tropical   |

### Application information

|  |       |                           |          |
|--|-------|---------------------------|----------|
| Air volume occupied by the driver        | -     | $10^{-3}$ .m <sup>3</sup> | 0.5      |
| Speaker net mass                         |       | kg                        | 2.15     |
| Baffle cut-out Diameter (Front mounting) |       | mm                        | 146.0    |
| Bolt number & Metric Diameter            |       | -                         | 4x M5    |
| Bolt Circle Diameter                     |       | mm                        | 172.0    |
| Max Overall dimension (on ears)          |       | mm                        | 187.5    |
| Max Overall Diemension (out of ears)     |       | mm                        | 162.5    |
| Flange Height                            |       | mm                        | 8.0      |
| Max Magnet Diameter                      |       | mm                        | 117.5    |
| Max Depth (Front mounting)               |       |                           | 68.5     |
| Recommended reflex box                   | Vb/Fb | Lts/Hz                    | 15L/56Hz |

Note: These specifications are stated to be representative of current production after conditioning. Because of our continuous research they are subject to change without notice. The latest upgrade dating cancels the previous one.