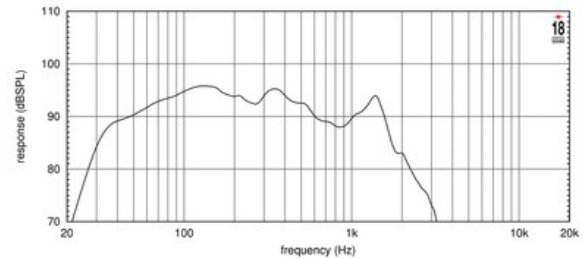
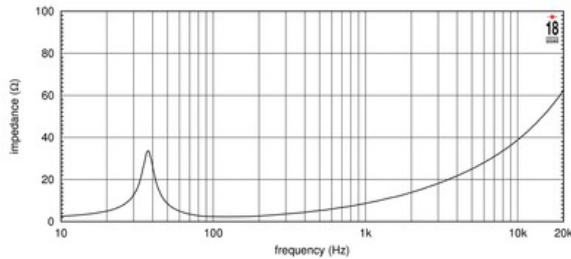


- Class D amplifier optimized for maximum power transfer
- Conforms to Powersoft™ iPal® standards
- 94.2 dB SPL 1W/ 1m average sensitivity
- 135mm (5.3") split winding, four layer ISV copper voice coil
- 3600 W program power handling
- Triple Silicon Spider (TSS) for improved excursion control
- Aluminum demodulating ring (SDR) for lower distortion

The 21iD is an 21 inch neodymium high performance subwoofer. The loudspeaker has been optimized for vented and bandpass subwoofer cabinet designs and is recommended to use a Class D or iPal (tm*) amplifier able to deliver 3600 Watt program power without clipping. Eighteen Sound engineers have obtained the best possible results with today's available materials in terms of clean and undistorted LF reproduction at a ultra high SPL, with the lowest possible power compression figure. The transducer design features include a large displacement suspension system specifically designed for matching the composite fiber reinforced, straight ribbed cone. Thanks to the Triple Silicon Spider (TSS) technology, the 21iD is able to control the moving mass with high linearity, showing an exceptional stability of mechanical parameter values in the long term. Bl force factor, as well as all other electro-dynamic parameters, are linear within the working range. This, together with the exceptional high excursion behavior - 70mm before damage, $\pm 14\text{mm}$ linear X_{max} - makes the 21iD an extremely low distortion, highly dynamic transducer. The 21iD features a state-of-the-art 5,3" inside outside copper ISV (Interleaved Sandwich Voice-Coil) enabling the 21iD to deliver extraordinary transient results. The 21iD has been developed after intense FEA and fluidodynamics simulation and testing, focusing on dissipating the heat generated by the powerful voice coil. Special attention was given to the optimization of air flow into the gap without introducing audible noise. A low-density material air diffractor placed into the heatsink acts as a cooling system, increasing the power handling capability and lowering the power compression figure.



SPECIFICATIONS

| | |
|--|-----------------|
| Nominal Diameter | 533 mm (in) |
| Nominal Impedance | 2 Ω |
| Minimum Impedance | 2.0 Ω |
| Nominal Power Handling ¹ | 1800 W |
| Continuous Power Handling ² | 3600 W |
| Sensitivity ³ | 94.2 dB |
| Frequency Range | 29 - 1600 Hz |
| Voice Coil Diameter | 135 mm (5.3 in) |
| Winding Material | copper |

DESIGN

| | |
|-----------------------|---|
| Surround Shape | Triple roll |
| Cone Shape | Straight |
| Magnet Material | Neo |
| Woofer Cone Treatment | Water,UV repellent |
| Recommended Enclosure | 220.0 dm ³ (7.77 ft ³) |
| Recommended Tuning | 40 Hz |

PARAMETERS⁴

| | |
|---------------------|---|
| Resonance Frequency | 38 Hz |
| Re | 1.3 Ω |
| Qes | 0.24 |
| Qms | 5.6 |
| Qts | 0.23 |
| Vas | 143.0 dm ³ (ft ³) |
| Sd | 0.17 cm ² (in ²) |
| Xmax | 14.0 mm |
| Mms | 489.0 g |
| Bl | 25.2 Txm |
| Le | 1.08 mH |
| EBP | 158 Hz |

MOUNTING AND SHIPPING INFO

| | |
|-----------------------------|---------------------------------------|
| Overall Diameter | 545 mm (21.46 in) |
| Bolt Circle Diameter | 520 mm (20.47 in) |
| Baffle Cutout Diameter | 492.0 mm (19.37 in) |
| Depth | 250 mm (9.84 in) |
| Flange and Gasket Thickness | 18 mm (0.71 in) |
| Net Weight | 13.6 kg (29.98 lb) |
| Shipping Weight | 15.1 kg (33.29 lb) |
| Shipping Box | 570x570x290 mm (22.44x22.44x11.42 in) |

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated nominal impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.