

SURROUND
Light-weight rubber

CONE
Three layer sandwich
(Paper - 2 Component foam - Paper)

DUSTCAP
Coated highly pressed paper

BASKET
Resonance free aluminum cast

VOICE COIL FORMER
High temperature stable glassfiber

SPIDER
Double-layer BIMAX[®]
(Polyester - Cotton)

VOICE COIL
50 mm / 2" Copper voice coil

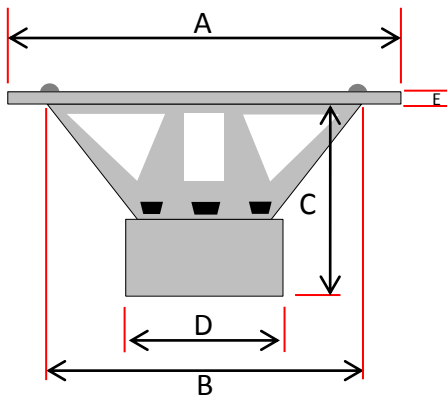
SHORT CIRCUIT RINGS
Aluminum rings for impedance linearising
and distortion elimination

MOTOR
Linearised high efficient motor with
double ferrit magnet



TECHNICAL SPECIFICATIONS

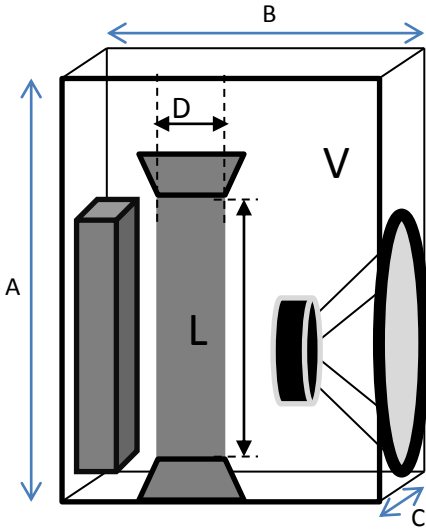
| | | | |
|----------------------------------|-------------------------|------------------------------|---|
| Product name | GZPW Reference 250 | Gasket | Aluminum |
| Product type | Subwoofer chassis | Terminal | Chrome push terminal |
| H.Art .nr. | 125053 | Power handling | 500 WRMS |
| Diameter | 275 mm / 10.8" | Impedance | 2 x 2 Ohm |
| Mounting diameter | 235 mm / 9.25" | Re | 3.8 Ohm |
| Mounting depth | 128 mm / 5.04" | Res | 54.7 Ohm |
| Magnet dimension | 2 x 133x 19 mm | FS | 31.3 Hz |
| Total weight | 5,1 KG / 11.244 lb | Qms | 7.22 |
| Voice coil diameter | 50 mm / 2 " Round Wire | Qes | 0.43 |
| Voice coil winding height | 35 mm / 1.38" | Qts | 0.40 |
| Voice coil wire material | Copper | Rms | 3.2 kg/s |
| Voice coil former material | Glass Fiber | Cms | 0.22 mm/N |
| Top plate height | 6 mm / 0.236" | Mms | 119.1 gr |
| Linear excursion (one direction) | 15 mm / 0.59 " | BL | 14.4 N/A |
| Effective Xmax | 40 mm / 1.57" | SPL | 86 dB |
| Top Plate and T-Yoke color | Black | VAS | 36.5 L / 1.29 cu.ft |
| Basket material | Aluminium Cast | Le | 0.94 mH |
| Basket color | Black matt | Recommended freq. response | 20 – 60 Hz Subsonic: 20Hz @ min24dB LPF: 50 - 60Hz @ min 12dB |
| Spider | 1x BIMAX 1x Connex | Recommended amplifier power | 300 – 600 WRMS @ 4 Ohm (1 Ohm) |
| Surround | Rubber | Sound Quality | ⊙⊙⊙⊙⊙⊙ (max. ⊙⊙⊙⊙⊙⊙) |
| Cone | 3 Layer Sandwich | SPL Competition | (max. ⊙⊙⊙⊙⊙⊙) |
| Dustcap | Pressed paper | Low bass performance 20-50Hz | ⊙⊙⊙⊙⊙⊙ (max. ⊙⊙⊙⊙⊙⊙) |
| Magnetcover | Machined & polished Alu | Mid bass performance 50-80Hz | ⊙⊙⊙⊙⊙⊙ (max. ⊙⊙⊙⊙⊙⊙) |



| | |
|---|----------------|
| A | 275 mm / 10.8" |
| B | 235 mm / 9.25" |
| C | 128 mm / 5.04" |
| D | 142 mm / 5.59" |
| E | 6 mm / 0.236" |



BOX RECOMMENDATION

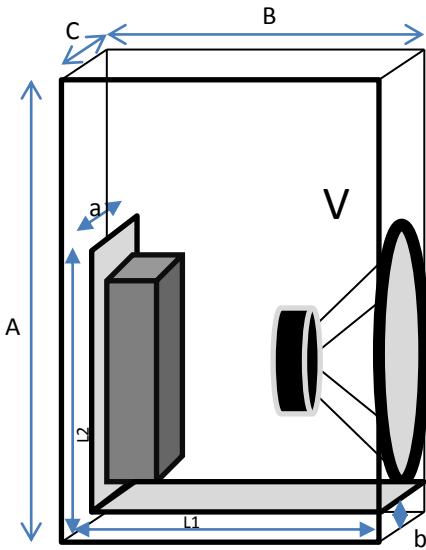


Small size vented box for punchy bass

V: 32 L / 1.13 cu.ft
 D: 80 mm / 3.15"
 L: 300 mm / 11.8"
 Tuning: 36 Hz
 F3: 34 Hz

Outer dimensions based on 22 mm / 0.87" Wood:
 A: 520 mm / 20.5"
 B: 350 mm / 13.8"
 C: 300 mm / 11.8"

Polyester damping behind the port

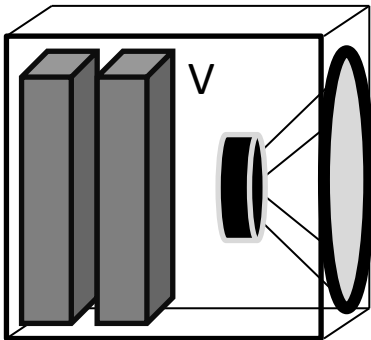


Medium size vented box for extremely low bass

V: 35 L / 1.24 cu.ft
 Portarea:
 a: 300 mm / 11.8"
 b: 25 mm / 0.98"
 L1: 280 mm / 11"
 L2: 270 mm / 10.63"
 Port thickness: 22 mm / 0.87"
 Tuning: 31 Hz
 F3: 32 Hz
 Port rounded inside and outside!!

Outer dimensions based on 22 mm / 0.87" Wood:
 A: 620 mm / 24.4"
 B: 302 mm / 11.89"
 C: 344 mm / 13.54"

Polyester damping behind the woofer



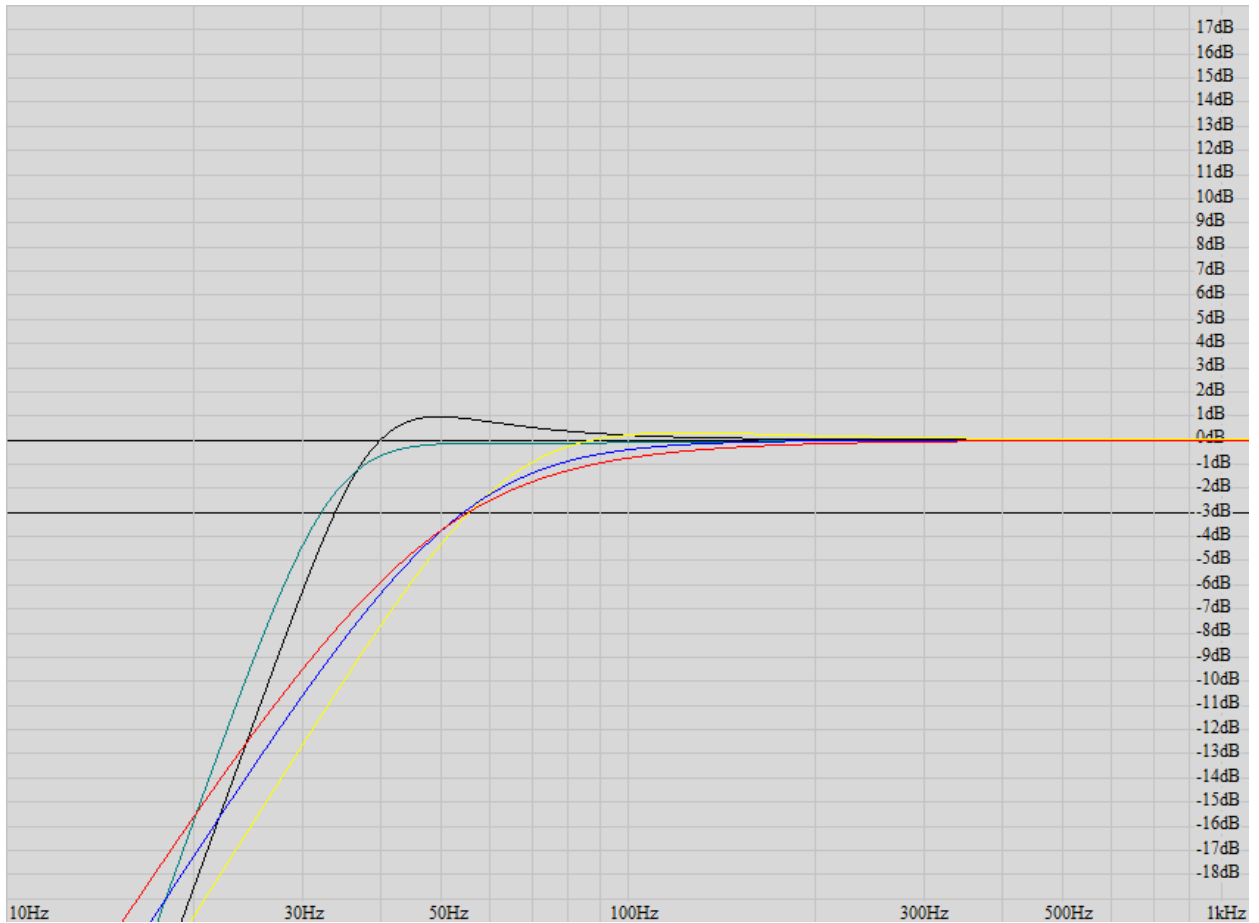
Small size sealed box

V: 12 – 25L / 0.42 – 0.88 cu.ft
 Qtc: 0.82 – 0.62
 F3: 54 Hz

40 - 60% Sheep wool

Die hier aufgeführten Gehäusevorschläge sind nur einige, der möglichen Varianten.
 Bitte beachten Sie zudem, dass die finale Abstimmung, speziell die Port Längen je nach Fahrzeug und eigenem Geschmack variiert werden sollte.
 Above-mentioned enclosure recommendations are just a few possible variations.
 Please note that you should find the perfect tuning, especially port length, based on your car and own taste.





| Curve | Type | Volume | F3/ Qtc |
|--------|--------|-------------------|--------------|
| Black | Vented | 32 L / 1.13 cu.ft | 33 Hz |
| Green | Vented | 35 L / 1.24 cu.ft | 32 Hz |
| Yellow | Sealed | 12 L / 0.42 cu.ft | 54 Hz / 0.82 |
| Blue | Sealed | 18 L / 0.64 cu.ft | 54 Hz / 0.70 |
| Red | Sealed | 25 L / 0.88 cu.ft | 54 Hz / 0.62 |

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*Above-mentioned enclosure recommendations are just a few possible variations.
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