

Peerless

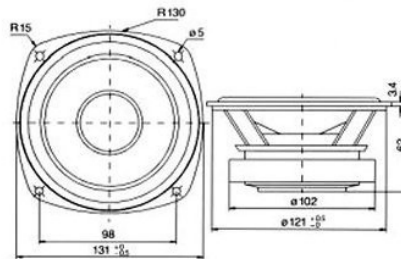


5" WOOFER



831866

130 WR 26 102 PPB 4Ω



Small high-efficiency woofer with die cast basket and extra heavy magnet. It has polypropylene cone and rubber surround. The highly damped resonance makes it suitable for use in cars. We also recommend this unit for hi-fi systems where it can be used in satellites together with a subwoofer.

Thiele Small parameters:

| | | Free air | Common | Baffled |
|--|------------------------|----------|---------|---------|
| Nominal impedance | Znom (Ω): | | 4.0 | |
| Minimum impedance/at freq. | Zmin (Ω/Hz): | | 3.6/440 | |
| Maximum impedance | Zo (Ω): | | 21.2 | |
| Dc resistance | Re (Ω): | | 3.3 | |
| Voice coil inductance | Le (mH): | | 0.5 | |
| Capacitor in series with 4Ω (For impedance compensation) | Cc (μF): | | 19 | |
| Resonance frequency | fs (Hz): | 52.2 | | 50.4 |
| Mechanical Q factor | Qms : | 1.65 | | 1.71 |
| Electrical Q factor | Qes : | 0.30 | | 0.31 |
| Total Q factor | Qts : | 0.25 | | 0.26 |
| F (Ratio fs/Qts) | F (Hz): | | | 193 |
| Mechanical resistance | Rms (kg/s): | | 1.62 | |
| Moving mass | Mms (g): | 8.1 | | 8.7 |
| Suspension compliance | Cms (mm/N): | | 1.14 | |
| Effective cone diameter | D (cm): | | 10.4 | |
| Effective piston area | Sd (cm ²): | | 85.0 | |
| Equivalent volume | Vas (l): | | 11.7 | |
| Force factor | BL (N/A): | | 5.4 | |
| Reference Voltage Sensitivity Re 2.83V 1m at 440 Hz | (dB): | | 91.9 | |

Magnet and voice coil parameters:

| | | |
|---------------------|----------|------|
| Voice coil diameter | d (mm): | 26 |
| Voice coil length | h (mm): | 8.0 |
| Voice coil layers | n : | 2 |
| Flux density in gap | B (T): | 1.1 |
| Total useful flux | Φ (mWb): | 0.7 |
| Height of the gap | hg (mm): | 6 |
| Diameter of magnet | dm (mm): | 102 |
| Height of magnet | hm (mm): | 16 |
| Weight of magnet | (kg): | 0.54 |

Power handling:

| | | |
|----------------------------------|---------|------------|
| Longterm Max System Power (IEC) | (W): | 100 |
| Max linear SPL (rms)/by power | (dB/W): | 102/50 |
| Frequency range for test signal: | | 20-5000 Hz |

Normal programic material signal with a crest factor of 6dB (IEC 268-5) is used in both tests

