# 12CL64

## LF Drivers - 12.0 Inches

500 W continuous program power capacity
64 mm (2.5 in) copper voice coil
50 - 3000 Hz response
98 dB sensitivity

## Specifications

| | |
|---|---|
| Nominal diameter | 320 mm (12.0 in) |
| Nominal impedance | 8 Ω |
| Minimum impedance | 6.3 Ω |
| Nominal power handling[1] | 250 W |
| Continuous power handling[2] | 500 W |
| Sensitivity (1W/1m)[3] | 98.0 dB |
| Frequency range | 50 - 3000 Hz |
| Voice coil diameter | 64 mm (2.5 in) |
| Winding material | Copper |
| Former material | Glass Fibre |
| Winding depth | 13 mm (0.51 in) |
| Magnetic gap depth | 8 mm (0.31 in) |
| Flux density | 1.15 T |

## Design

| | |
|---|---|
| Surround shape | Double Roll |
| Cone shape | Exponential |
| Magnet material | Neodymium Inside Slug |

## Design

| | |
|---|---|
| Spider | Single |
| Pole design | Straight Pole |
| Woofer cone treatment | WP Waterproof Front Side |
| Recommended enclosure | 40.0 dm$^3$ (1.41 ft$^3$) |
| Recommended tuning | 64 Hz |

## Parameters[4]

| | |
|---|---|
| Fs | 52 Hz |
| Re | 5.5 Ω |
| Qes | 0.32 |
| Qms | 4.3 |
| Qts | 0.3 |
| Vas | 64.0 dm$^3$ (2.25 ft$^3$) |
| Sd | 522.0 cm$^2$ (80.9 in$^2$) |
| η$_0$ | 3.4 % |
| Xmax | 4.5 mm |
| Xvar | 6.0 mm |
| Mms | 55 g |
| Bl | 17.5 Txm |

## Parameters

| | |
|---|---|
| Le | 1.1 mH |
| EBP | 162 Hz |

## Mounting And Shipping Info

| | |
|---|---|
| Overall diameter | 313 mm (12.32 in) |
| Bolt circle diameter | 299 mm (11.77 in) |
| Baffle cutout diameter | 282.0 mm (11.1 in) |
| Depth | 133 mm (5.24 in) |
| Flange and gasket thickness | 9 mm (0.35 in) |
| Air volume occupied by driver | 2.0 dm$^3$ (0.07 ft$^3$) |
| Net weight | 1.9 kg (4.2 lb) |
| Shipping weight | 2.4 kg (5.3 lb) |
| Shipping box | 340x340x170 mm (13.4x13.4x6.7 in) |

## Service Kit

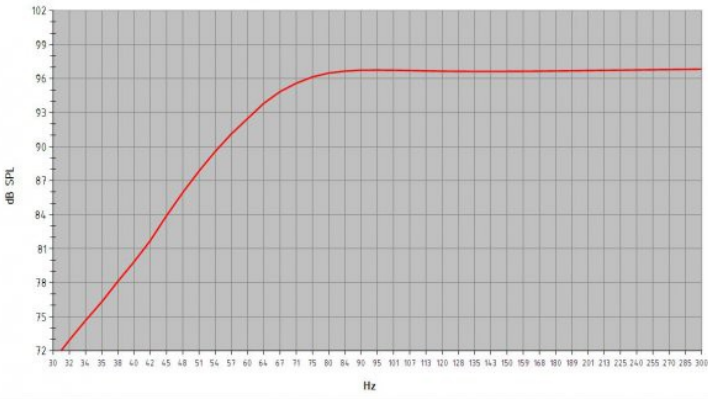| |
|---|
| RCK12CL648 |

1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum 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.

## Frequency Response (2,83 Vrms/1 m)



| Model: | **12 CL 64** | | |
|---|---|---|---|
| Enclosure Type: | **Bass Reflex** | | |

| | | | |
|---|---|---|---|
| Internal  Net Volume (Liters): | **40** | | |
| Tuning Frequency (Hz): | **64** | Port Area (cm²): | **138,7** |
| Frequency (-3 dB) (Hz): | **64,1** | Port Length (cm): | **13,8** |

| | | | | | |
|---|---|---|---|---|---|
| Excursion Limited Maximum SPL at 1 meter (dB): | **119,4** | equal to | **222,7** | Watts | (Bass Band Power Rating) |
| Thermal Limited Maximum SPL at 1 meter (dB): | **119,9** | equal to | **250,0** | Watts | (Mid Band Power Rating) |