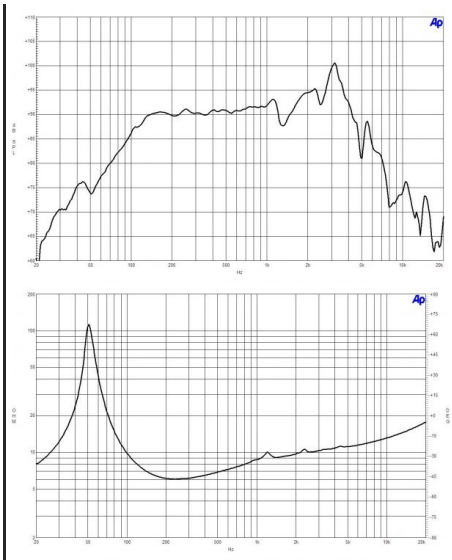


8BG51

LF Drivers Neo - 8.0 Inches

500 W continuous program power capacity
51 mm (2 in) copper voice coil
50 - 4000 Hz response
92 dB sensitivity
Neodymium magnet allows a very light yet powerful motor assembly
Shorting copper cap for extended HF response
Ventilated voice coil gap for reduced power compression

Specifications

Nominal diameter	200 mm (8.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.0 Ω
Nominal power handling[1]	250 W
Continuous power handling[2]	500 W
Sensitivity (1W/1m)[3]	92.0 dB
Frequency range	50 - 4000 Hz
Voice coil diameter	51 mm (2.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	17 mm (0.65 in)
Magnetic gap depth	8 mm (0.31 in)
Flux density	1.15 T

Design

Surround shape	Roll
Cone shape	Exponential
Magnet material	Neodymium Inside Slug

Design

Spider	Single
Pole design	T-Pole
Woofer cone treatment	WP Waterproof Front Side
Recommended enclosure	19.0 dm^3 (0.67 ft^3)
Recommended tuning	49 Hz

Parameters[4]

Fs	52 Hz
Re	5 Ω
Qes	0.42
Qms	12.3
Qts	0.4
Vas	18.0 dm^3 (0.63 ft^3)
Sd	220.0 cm^2 (34.1 in^2)
η_0	0.6 %
Xmax	6.5 mm
Xvar	8.0 mm
Mms	35 g
Bl	11.8 Txm

Parameters

Le	0.5 mH
EBP	123 Hz

Mounting And Shipping Info

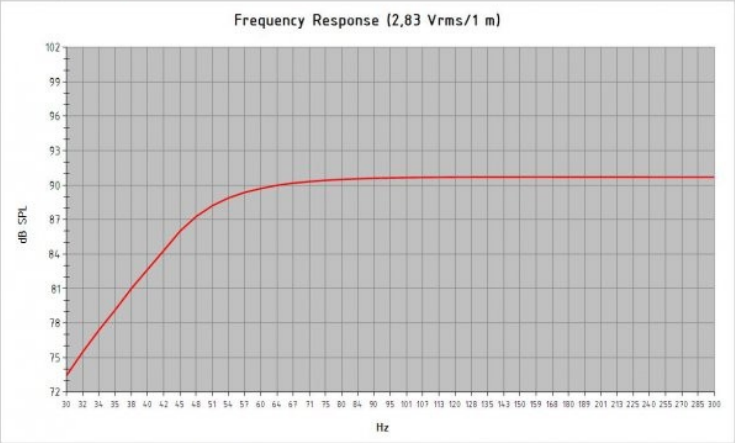
Overall diameter	225 mm (8.8 in)
Bolt circle diameter	210 mm (8.3 in)
Baffle cutout diameter	187.0 mm (7.4 in)
Depth	90 mm (3.5 in)
Flange and gasket thickness	11 mm (0.43 in)
Air volume occupied by driver	1.1 dm^3 (0.04 ft^3)
Net weight	1.8 kg (4.0 lb)
Shipping units	1
Shipping weight	2.2 kg (4.8 lb)
Shipping box	300x160x180 mm (11.8x6.3x7.1 in)

Service Kit

Replacement diaphragm	RCK008BG518

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.

B&C SPEAKERS



Model:	***8 BG 51***
Enclosure Type:	***Bass Reflex***

Internal Net Volume (Liters):	***19***		
Tuning Frequency (Hz):	***49***	*Port Area (cm²):*	***32,2***
Frequency (-3 dB) (Hz):	***49,0***	*Port Length (cm):*	***15,7***

Excursion Limited Maximum SPL at 1 meter (dB):	***109,8***	*equal to*	***112,6***	*Watts*	*(Bass Band Power Rating)*
Thermal Limited Maximum SPL at 1 meter (dB):	***113,2***	*equal to*	***250,0***	*Watts*	*(Mid Band Power Rating)*