Model B200
Specification Number SP1014

Low/mid range unit with rubber modified polystyrene diaphragm, highly compliant suspension, and long throw voice coil assembly. Suitable for use with totally enclosed boxes.

Net weight: 1.47 kg (3.24 lb)

Nominal impedance: 8Ω

Nominal frequency range: 25-3,500 Hz

Typical enclosure volumes: Totally enclosed baffle 20-30 litres (2-1 cf)

Power handling:
Continuous sine wave 15 V RMS (see note 1)
Programme 50 W (see note 2)

Magnet:
Flux density 1.1 T (11,000 gauss)
Total flux 5.8 x 10^-4 Wb (58,000 Maxwells)

Sensitivity: Pink noise input for 96 dB SPL at 1 metre on axis 10 V RMS

Voice coil:
Diameter 26 mm (1 in)
Inductance 0.42 mH
Max continuous service temperature (30 min) 180°C
Max intermitent temperature (5 sec) 250°C
Thermal time constant 4 seconds
Thermal resistivity (temp rise per applied Watt) 7°C/W
Nominal DC Resistance, Rdc 7.1Ω (tolerance ±10%)
Typical production spread 6.7 ± 0.2Ω (see note 3)
Minimum impedance (in nominal frequency range) 7.4Ω at 160 Hz

Diaphragm:
Effective area, Se 232 cm² (36 sq in)
Effective moving mass, Me 24.0 gm (0.84 oz)
Max linear excursion, X, 6 mm peak-peak (½ in)
Max damage limited excursion 12 mm peak-peak (½ in)

Free air resonance frequency, f₀:
Nominal 25 Hz (tolerance ± 5 Hz)
Typical production spread 24.7 ± 1.0 Hz (see note 3)

Total mechanical resistance of suspension, Rms:
0.8 mech Ω

Suspension compliance, Cms:
1.78 x 10^-3 m/N
(1.78 x 10^-4 cm/dyne)

Equivalent volume of compliance, Veq:
131.5 litres
(8,000 cu in)

Force factor, Bf: 7.1 N/A

Damping:
Mechanical Qm 4.7
Electrical Qe 0.57
Total Q, 0.51 (see note 4)

Notes
1. Continuous Power Rating (Pc).
   \[ P_c = \frac{V^2}{R} \]
   V is the RMS voltage which can be applied to the unit continuously without thermal overload of the voice coil. At low frequencies the continuous power rating of the speaker may be reduced because of limitations imposed on diaphragm excursion by the acoustic loading.

2. The programme rating of a unit is equal to the maximum programme rating of any system with which the unit may be safely used in conjunction with the recommended dividing network and enclosure. The programme rating of any system is the undistorted power output of an amplifier with which the system may be satisfactorily operated on normal programme over an extended period of time.

3. "Typical production spread" is derived from statistical analysis of a large number of units, and is calculated to include 95% of all units.

4. \[ Q_u = \frac{2\pi f_0 M_u}{R_{ms}} \quad Q_e = \frac{2\pi f_0 M_e}{(Bf/R_{dc})} \quad Q_t = \frac{1}{Q_u} + \frac{1}{Q_e} \]

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KEF reserve the right to incorporate developments and amend the specification without prior notice, in line with continuous research and product improvement.