

# WBB1-8710 SKF 21x15x3.5mm

## Basic static load rating $C_0$

### 0.29 kN Deep groove ball bearings

Bearing number	WBB1-8710
Size (mm)	21x15x3.5
Brand	SKF
Bore Diameter (mm)	21
Outer Diameter (mm)	15
Width (mm)	3.5
d	15 mm
D	21 mm
B	3.5 mm
$d_1$	16.9 mm
$D_1$	19.1 mm
$r_{1,2} - \text{min.}$	0.15 mm
$d_a - \text{min.}$	16 mm
$d_a - \text{max.}$	16.5 mm
$D_a - \text{max.}$	20 mm
$r_a - \text{max.}$	0.15 mm
Basic dynamic load rating – C	0.527 kN
Basic static load rating – $C_0$	0.29 kN
Fatigue load limit – $P_u$	0.012 kN
Reference speed	67000 r/min
Limiting speed	40000 r/min

Calculation factor – $k_r$	0.015
Calculation factor – $f_\theta$	8.4
$d_1 \approx$	16.9 mm
$D_1 \approx$	19.1 mm
$r_{1,2} \text{ min.}$	0.15 mm
$d_a \text{ min.}$	16 mm
$D_a \text{ max.}$	20 mm
$r_a \text{ max.}$	0.15 mm
Basic dynamic load rating C	0.527 kN
Basic static load rating $C_0$	0.29 kN
Fatigue load limit $P_u$	0.012 kN
Calculation factor $k_r$	0.015
Calculation factor $f_\theta$	8.4
Mass bearing	0.0031 kg