

# WBB1-8700-2Z SKF 4×1.2×2.5mm ra max. 0.1 mm Deep groove ball bearings

Bearing number	WBB1-8700-2Z
Size (mm)	4×1.2×2.5
Brand	SKF
Bore Diameter (mm)	4
Outer Diameter (mm)	1.2
Width (mm)	2.5
d	1.2 mm
D	4 mm
B	2.5 mm
d <sub>1</sub>	2.15 mm
D <sub>2</sub>	3.5 mm
r <sub>1,2</sub> – min.	0.1 mm
d <sub>a</sub> – min.	2 mm
d <sub>a</sub> – max.	2.1 mm
D <sub>a</sub> – max.	3.5 mm
r <sub>a</sub> – max.	0.1 mm
Basic dynamic load rating – C	0.062 kN
Basic static load rating – C <sub>0</sub>	0.016 kN
Fatigue load limit – P <sub>u</sub>	0.001 kN
Reference speed	220000 r/min
Limiting speed	110000 r/min
Calculation factor – k <sub>r</sub>	0.02

Calculation factor – $f_0$	6.4
$d_1 \approx$	2.15 mm
$D_2 \approx$	3.5 mm
$r_{1,2} \text{ min.}$	0.1 mm
$d_a \text{ min.}$	2 mm
$d_a \text{ max.}$	2.1 mm
$D_a \text{ max.}$	3.5 mm
$r_a \text{ max.}$	0.1 mm
Basic dynamic load rating C	0.062 kN
Basic static load rating $C_0$	0.016 kN
Fatigue load limit $P_u$	0.001 kN
Calculation factor $k_r$	0.02
Calculation factor $f_0$	6.4
Mass bearing	0.0001 kg