

# WBB1-8700 SKF Mass bearing 0.0001 kg 4×1.2×1.8mm Deep groove ball bearings

Bearing number	WBB1-8700
Size (mm)	4×1.2×1.8
Brand	SKF
Bore Diameter (mm)	4
Outer Diameter (mm)	1.2
Width (mm)	1.8
d	1.2 mm
D	4 mm
B	1.8 mm
d <sub>1</sub>	2.15 mm
D <sub>1</sub>	3.05 mm
r <sub>1,2</sub> – min.	0.1 mm
d <sub>a</sub> – min.	2 mm
D <sub>a</sub> – max.	3.2 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	140000 r/min
Calculation factor – k <sub>r</sub>	0.02
Calculation factor – f <sub>0</sub>	6.4

$d_1 \approx$	2.15 mm
$D_1 \approx$	3.05 mm
$r_{1,2} \text{ min.}$	0.1 mm
$d_a \text{ min.}$	2 mm
$D_a \text{ max.}$	3.2 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