

# WBB1-8714-2ZS SKF Calculation factor – $f_0$ 8.6 25x20x4mm Deep groove ball bearings

Bearing number	WBB1-8714-2ZS
Size (mm)	25x20x4
Brand	SKF
Bore Diameter (mm)	25
Outer Diameter (mm)	20
Width (mm)	4
$d$	20 mm
$D$	25 mm
$B$	4 mm
$d_1$	21.35 mm
$D_2$	24 mm
$r_{1,2} - \text{min.}$	0.15 mm
$d_a - \text{min.}$	21 mm
$d_a - \text{max.}$	21 mm
$D_a - \text{max.}$	24.5 mm
$r_a - \text{max.}$	0.15 mm
Basic dynamic load rating – $C$	0.572 kN
Basic static load rating – $C_0$	0.365 kN
Fatigue load limit – $P_u$	0.016 kN
Reference speed	53000 r/min
Limiting speed	26000 r/min
Calculation factor – $k_r$	0.015

Calculation factor – $f_0$	8.6
$d_1 \approx$	21.35 mm
$D_2 \approx$	24 mm
$r_{1,2} \text{ min.}$	0.15 mm
$d_a \text{ min.}$	21 mm
$d_a \text{ max.}$	21 mm
$D_a \text{ max.}$	24.5 mm
$r_a \text{ max.}$	0.15 mm
Basic dynamic load rating C	0.572 kN
Basic static load rating $C_0$	0.365 kN
Fatigue load limit $P_u$	0.016 kN
Calculation factor $k_r$	0.015
Calculation factor $f_0$	8.6
Mass bearing	0.0034 kg