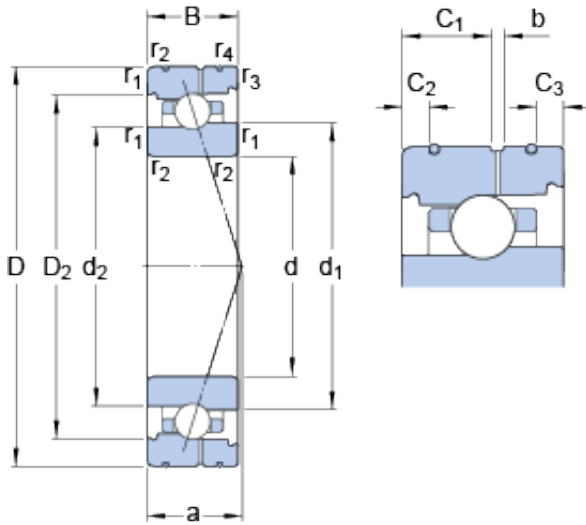




BEARING PRECISION AXLE CORP.



71911 CB/HCP4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 71911 CB/HCP4AL

71911 CB/HCP4AL Bearing 2D drawings and 3D CAD models

Size	80x55x13 mm
Bore Diameter	80 mm
Outer Diameter	55 mm
Width	13 mm
d	55 mm
D	80 mm
B	13 mm
d ₁	63.94 mm
d ₂	62.7 mm
D ₂	73.2 mm
b	2 mm
C ₁	6.5 mm
C ₂	3.8 mm
C ₃	1.7 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	18.8 mm
d _a - min.	59.6 mm
d _b - min.	59.6 mm
D _a - max.	75.4 mm
D _b - max.	78 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	64.8 mm



BEARING PRECISION AXLE CORP.

Basic dynamic load rating - C	10 kN
Basic static load rating - C ₀	8.2 kN
Fatigue load limit - P _u	0.345 kN
Limiting speed for grease lubrication	28000 r/min
Limiting speed for oil lubrication	43000 mm/min
Ball - D _w	5.556 mm
Ball - z	28
G _{ref}	2.58 cm ³
Calculation factor - f ₀	9.8
Preload class A - G _A	33 N
Preload class B - G _B	66 N
Preload class C - G _C	200 N
Calculation factor - f	1.09
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.03
Calculation factor - f _{2C}	1.08
Calculation factor - f _{HC}	1.01
Preload class A	38 N/micron
Preload class B	50 N/micron
Preload class C	80 N/micron
d ₁	63.94 mm
d ₂	62.7 mm
D ₂	73.2 mm
C ₁	6.5 mm
C ₂	3.8 mm
C ₃	1.7 mm
r _{1,2} min.	1 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	59.6 mm
d_b min.	59.6 mm
D_a max.	75.4 mm
D_b max.	78 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	64.8 mm
Basic dynamic load rating C	13.5 kN
Basic static load rating C_0	13.7 kN
Fatigue load limit P_u	0.345 kN
Attainable speed for grease lubrication	28000 r/min
Attainable speed for oil-air lubrication	43000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	28
Reference grease quantity G_{ref}	2.58 cm ³
Preload class A G_A	33 N
Static axial stiffness, preload class A	38 N/ μ m
Preload class B G_B	66 N
Static axial stiffness, preload class B	50 N/ μ m
Preload class C G_C	200 N
Static axial stiffness, preload class C	80 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01



BEARING PRECISION AXLE CORP.

Calculation factor f_0	9.8
Mass bearing	0.17 kg