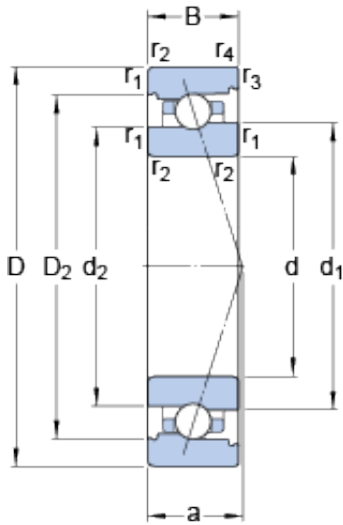




Off-the-shelf SKF shaft Co., Ltd



71911 ACB/HCP4A Bearing 2D drawings and 3D CAD models

55 mm x 80 mm x 13 mm SKF 71911
ACB/HCP4A Special Polyamide cage design
Precision Bearings

Bearing No. 71911 ACB/HCP4A

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
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	26 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	9.4 kN
Basic static load rating - C ₀	7.6 kN
Fatigue load limit - P _u	0.325 kN



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Limiting speed for grease lubrication	24000 r/min
Limiting speed for oil lubrication	38000 mm/min
Ball - D_w	5.556 mm
Ball - z	28
G_{ref}	2.58 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	55 N
Preload class B - G_B	110 N
Preload class C - G_C	330 N
Calculation factor - f	1.09
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	98 N/micron
Preload class B	126 N/micron
Preload class C	192 N/micron
d_1	63.94 mm
d_2	62.7 mm
D_2	73.2 mm



Off-the-shelf SKF shaft Co., Ltd

$r_{1,2}$ min.	1 mm
$r_{3,4}$ 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	12.7 kN
Basic static load rating C_0	12.7 kN
Fatigue load limit P_u	0.325 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 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	55 N
Static axial stiffness, preload class A	98 N/ μ m
Preload class B G_B	110 N
Static axial stiffness, preload class B	126 N/ μ m
Preload class C G_C	330 N
Static axial stiffness, preload class C	192 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.08



Off-the-shelf SKF shaft Co., Ltd

Calculation factor f_{HC}	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.17 kg