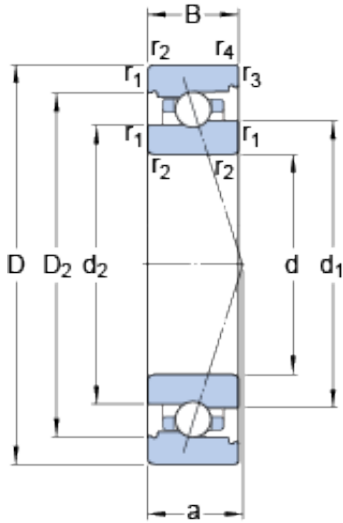




DPA Bearing Sales Corp.



7008 CB/HCP4A Bearing 2D drawings and 3D CAD models

40 mm x 68 mm x 15 mm SKF 7008 CB/HCP4A High Speed Capability Precision Bearings

Bearing No. 7008 CB/HCP4A

Size	68x40x15 mm
Bore Diameter	68 mm
Outer Diameter	40 mm
Width	15 mm
d	40 mm
D	68 mm
B	15 mm
d ₁	50.95 mm
d ₂	49.87 mm
D ₂	58.88 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	14.8 mm
d _a - min.	44.6 mm
d _b - min.	44.6 mm
D _a - max.	63.4 mm
D _b - max.	64.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	51.6 mm
Basic dynamic load rating - C	7.4 kN
Basic static load rating - C ₀	5.6 kN
Fatigue load limit - P _u	0.236 kN
Limiting speed for grease	34000 r/min



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Lubrication	
Limiting speed for oil lubrication	53000 mm/min
Ball - D_w	4.762 mm
Ball - z	26
G_{ref}	2.22 cm ³
Calculation factor - f_0	9.8
Preload class A - G_A	24 N
Preload class B - G_B	48 N
Preload class C - G_C	145 N
Calculation factor - f	1.04
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Preload class A	30 N/micron
Preload class B	40 N/micron
Preload class C	63 N/micron
d_1	50.95 mm
d_2	49.87 mm
D_2	58.88 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	44.6 mm
d_b min.	44.6 mm
D_a max.	63.4 mm
D_b max.	64.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	51.6 mm



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Basic dynamic load rating C	9.95 kN
Basic static load rating C_0	9.3 kN
Fatigue load limit P_u	0.236 kN
Attainable speed for grease lubrication	34000 r/min
Attainable speed for oil-air lubrication	53000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	26
Reference grease quantity G_{ref}	2.22 cm ³
Preload class A G_A	24 N
Static axial stiffness, preload class A	30 N/ μ m
Preload class B G_B	48 N
Static axial stiffness, preload class B	40 N/ μ m
Preload class C G_C	145 N
Static axial stiffness, preload class C	63 N/ μ m
Calculation factor f	1.04
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Calculation factor f_0	9.8
Mass bearing	0.2 kg