



GARLOCK BEARINGS LTD



S7006 CD/HCP4A Bearing 2D drawings and 3D CAD models

S7006 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7006 CD/HCP4A

Size	30x55x13 mm
Bore Diameter	30 mm
Outer Diameter	55 mm
Width	13 mm
d	30 mm
D	55 mm
B	13 mm
d ₁	37.7 mm
d ₂	37.7 mm
D ₂	49.57 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	12.3 mm
d _a - min.	34.6 mm
d _a - max.	37.2 mm
d _b - min.	34.6 mm
d _b - max.	37.2 mm
D _a - max.	50.4 mm
D _b - max.	53 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	14.3 kN
Basic static load rating - C ₀	8 kN
Fatigue load limit - P _u	0.34 kN



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Limiting speed for grease lubrication	38000 r/min
Ball - D_w	7.938 mm
Ball - z	14
Calculation factor - f_0	9.4
Preload class A - G_A	50 N
Preload class B - G_B	100 N
Preload class C - G_C	200 N
Preload class D - G_D	400 N
Calculation factor - f	1.06
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Preload class A	34 N/micron
Preload class B	45 N/micron
Preload class C	61 N/micron
Preload class D	85 N/micron
d_1	37.7 mm
d_2	37.7 mm
D_2	49.57 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	34.6 mm
d_a max.	37.2 mm
d_b min.	34.6 mm
d_b max.	37.2 mm
D_a max.	50.4 mm
D_b max.	53 mm



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r_a max.	1 mm
r_b max.	0.3 mm
Basic dynamic load rating C	14.3 kN
Basic static load rating C_0	8 kN
Fatigue load limit P_u	0.34 kN
Attainable speed for grease lubrication	38000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	14
Preload class A G_A	50 N
Static axial stiffness, preload class A	34 N/ μ m
Preload class B G_B	100 N
Static axial stiffness, preload class B	45 N/ μ m
Preload class C G_C	200 N
Static axial stiffness, preload class C	61 N/ μ m
Preload class D G_D	400 N
Static axial stiffness, preload class D	85 N/ μ m
Calculation factor f	1.06
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_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	9.4
Mass bearing	0.096 kg