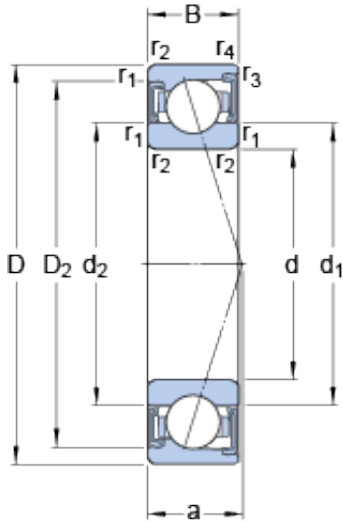




# NUP BEARING LTD



30 mm x 55 mm x 13 mm skf S7006  
CD/HCP4A Super-precision Angular contact ball  
bearings

Bearing No. S7006 CD/HCP4A

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

|   |             |
|---|-------------|
| Size                                      | 30x55x13 mm |
| Bore Diameter                             | 30 mm       |
| Outer Diameter                            | 55 mm       |
| Width                                     | 13 mm       |
| d   | 30 mm       |
| D   | 55 mm       |
| B   | 13 mm       |
| d <sub>1</sub>                            | 37.7 mm     |
| d <sub>2</sub>                            | 37.7 mm     |
| D <sub>2</sub>                            | 49.57 mm    |
| r <sub>1,2</sub> - min.                   | 1 mm        |
| r <sub>3,4</sub> - min.                   | 0.3 mm      |
| a   | 12.3 mm     |
| d <sub>a</sub> - min.                     | 34.6 mm     |
| d <sub>a</sub> - max.                     | 37.2 mm     |
| d <sub>b</sub> - min.                     | 34.6 mm     |
| d <sub>b</sub> - max.                     | 37.2 mm     |
| D <sub>a</sub> - max.                     | 50.4 mm     |
| D <sub>b</sub> - max.                     | 53 mm       |
| r <sub>a</sub> - max.                     | 1 mm        |
| r <sub>b</sub> - max.                     | 0.3 mm      |
| Basic dynamic load rating - C             | 14.3 kN     |
| Basic static load rating - C <sub>0</sub> | 8 kN        |
|   |             |



## NUP BEARING LTD

|                                       |             |
|---------------------------------------|-------------|
| Fatigue load limit - $P_u$            | 0.34 kN     |
| 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     |
|                                       |             |



## NUP BEARING LTD

|   |               |
|---|---------------|
| $D_a$ 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       |
| 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/ $\mu$ m |
| Preload class B $G_B$                   | 100 N         |
| Static axial stiffness, preload class B | 45 N/ $\mu$ m |
| Preload class C $G_C$                   | 200 N         |
| Static axial stiffness, preload class C | 61 N/ $\mu$ m |
| Preload class D $G_D$                   | 400 N         |
| Static axial stiffness, preload class D | 85 N/ $\mu$ 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      |