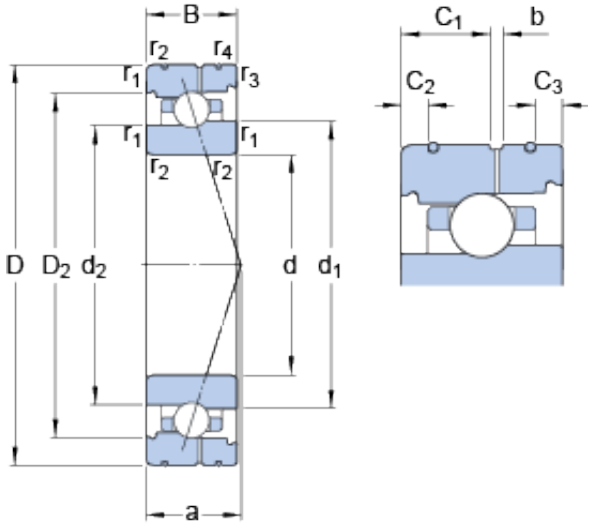
# Loyal | 7008 ACB/HCP4AL




**Bearing No. 7008 ACB/HCP4AL**

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|---|---|
| b | 1.5 mm |
| d | 40 mm |
| a | 20.2 mm |
| B | 15 mm |
| D | 68 mm |
| Ball - z | 26 |
| Size (mm) | 68x40x15 |
| Width (mm) | 15 |
| Mass bearing | 0.2 kg |
| $d_2$ | 49.87 mm |
| $D_2$ | 58.88 mm |
| $d_n$ | 51.6 mm |
| $C_1$ | 7.8 mm |
| $C_2$ | 3.6 mm |
| $C_3$ | 2.6 mm |
| $C_2$ | 3.6 mm |
| $C_1$ | 7.8 mm |
| $d_n$ | 51.6 mm |
| $D_2$ | 58.88 mm |
| $d_2$ | 49.87 mm |
| $d_1$ | 50.95 mm |
| $d_1$ | 50.95 mm |
| $C_3$ | 2.6 mm |
| Bearing number | 7008 ACB/HCP4AL |
| Preload class A | 80 N/micron |
| Preload class B | 102 N/micron |
| $G_{ref}$ | 2.22 cm3 |
| Preload class C | 153 N/micron |
| Number of balls z | 26 |

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|---|---|
| Bore Diameter (mm) | 68 |
| $r_b$ max. | 0.6 mm |
| $r_a$ max. | 1 mm |
| $D_b$ max. | 64.8 mm |
| $D_a$ max. | 63.4 mm |
| $d_a$ min. | 44.6 mm |
| $d_b$ min. | 44.6 mm |
| Outer Diameter (mm) | 40 |
| $r_b$ - max. | 0.6 mm |
| $r_{3,4}$ min. | 0.6 mm |
| $d_b$ - min. | 44.6 mm |
| $D_a$ - max. | 63.4 mm |
| $D_b$ - max. | 64.8 mm |
| $r_{1,2}$ min. | 1 mm |
| $d_a$ - min. | 44.6 mm |
| $r_a$ - max. | 1 mm |
| Ball - $D_w$ | 4.762 mm |
| Calculation factor f | 1.04 |
| Calculation factor e | 0.68 |
| $r_{3,4}$ - min. | 0.6 mm |
| Calculation factor - f | 1.04 |
| $r_{1,2}$ - min. | 1 mm |
| Calculation factor - e | 0.68 |
| Ball diameter $D_w$ | 4.762 mm |
| Basic dynamic load rating C | 9.36 kN |
| Preload class C $G_C$ | 245 N |
| Basic dynamic load rating - C | 6.9 kN |
| Preload class B $G_B$ | 82 N |
| Preload class A $G_A$ | 41 N |
| Preload class C - $G_C$ | 245 N |
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|---|---|
| Preload class A - $G_A$ | 41 N |
| Preload class B - $G_B$ | 82 N |
| Calculation factor $f_1$ | 0.99 |
| Fatigue load limit $P_u$ | 0.224 kN |
| Calculation factor $f_{HC}$ | 1.01 |
| Calculation factor $f_{2C}$ | 1.05 |
| Calculation factor $f_{2B}$ | 1.02 |
| Calculation factor $f_{2A}$ | 1 |
| Calculation factor - $Y_2$ | 1.41 |
| Calculation factor - $Y_0$ | 0.76 |
| Calculation factor - $X_2$ | 0.67 |
| Limiting speed for oil lubrication | 48000 mm/min |
| Calculation factor - $Y_1$ | 0.92 |
| Fatigue load limit - $P_u$ | 0.224 kN |
| Calculation factor - $f_1$ | 0.99 |
| Calculation factor - $f_{2A}$ | 1 |
| Calculation factor - $f_{HC}$ | 1.01 |
| Calculation factor - $f_{2C}$ | 1.05 |
| Calculation factor - $f_{2B}$ | 1.02 |
| Limiting speed for grease lubrication | 32000 r/min |
| Basic static load rating $C_0$ | 8.65 kN |
| Static axial stiffness, preload class A | 80 N/µm |
| Static axial stiffness, preload class C | 153 N/µm |
| Static axial stiffness, preload class B | 102 N/µm |
| Attainable speed for grease lubrication | 32000 r/min |
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|---|---|
| Basic static load rating - $C_0$ | 5.3 kN |
| Attainable speed for oil-air lubrication | 48000 r/min |
| Reference grease quantity $G_{ref}$ | 2.22 $cm^3$ |
| 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 |