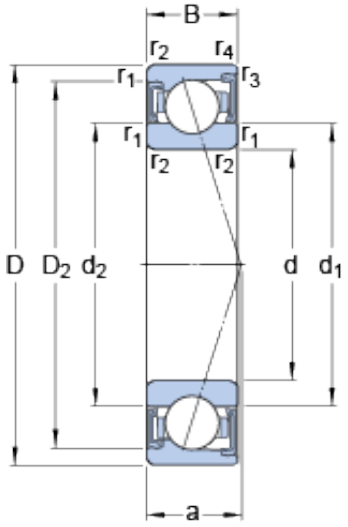
# Loyal | S7209 CD/HCP4A




**Bearing No. S7209 CD/HCP4A**

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|---|---|
| D | 85 mm |
| d | 45 mm |
| B | 19 mm |
| a | 18.3 mm |
| Ball - z | 14 |
| Size (mm) | 85x45x19 |
| Width (mm) | 19 |
| Mass bearing | 0.35 kg |
| $D_2$ | 75.7 mm |
| $d_2$ | 57.3 mm |
| $d_1$ | 57.3 mm |
| $d_2$ | 57.3 mm |
| $D_2$ | 75.7 mm |
| $d_1$ | 57.3 mm |
| Bearing number | S7209 CD/HCP4A |
| Preload class A | 67 N/micron |
| Preload class B | 92 N/micron |
| Preload class D | 185 N/micron |
| Preload class C | 128 N/micron |
| Number of balls z | 14 |
| $r_b$ max. | 0.6 mm |
| $r_a$ max. | 1 mm |
| $D_b$ max. | 80.8 mm |
| $D_a$ max. | 78 mm |
| $d_b$ max. | 56.5 mm |
| $d_a$ max. | 56.5 mm |
| $d_a$ min. | 52 mm |
| Bore Diameter (mm) | 85 |
| $d_b$ min. | 52 mm |
| Outer Diameter (mm) | 45 |

| | |
|---|---|
| $r_{3,4}$ min. | 0.6 mm |
| $d_b$ - min. | 52 mm |
| Calculation factor f | 1.07 |
| $d_a$ - max. | 56.5 mm |
| $r_{1,2}$ min. | 1.1 mm |
| $d_a$ - min. | 52 mm |
| $d_b$ - max. | 56.5 mm |
| $D_a$ - max. | 78 mm |
| $D_b$ - max. | 80.8 mm |
| $r_a$ - max. | 1 mm |
| $r_b$ - max. | 0.6 mm |
| Ball - $D_w$ | 12.7 mm |
| $r_{3,4}$ - min. | 0.6 mm |
| Calculation factor - f | 1.07 |
| $r_{1,2}$ - min. | 1.1 mm |
| Ball diameter $D_w$ | 12.7 mm |
| Basic dynamic load rating C | 42.3 kN |
| Preload class A $G_A$ | 160 N |
| Basic dynamic load rating - C | 42.3 kN |
| Preload class C $G_C$ | 640 N |
| Preload class D $G_D$ | 1280 N |
| Preload class B $G_B$ | 320 N |
| Preload class C - $G_C$ | 640 N |
| Preload class D - $G_D$ | 1280 N |
| Preload class B - $G_B$ | 320 N |
| Preload class A - $G_A$ | 160 N |
| Calculation factor $f_1$ | 1 |
| Fatigue load limit $P_u$ | 1.32 kN |
| Calculation factor $f_0$ | 14.2 |
| Calculation factor $f_{2D}$ | 1.06 |

| | |
|---|---|
| Calculation factor $f_{HC}$ | 1.01 |
| Calculation factor $f_{2C}$ | 1.03 |
| Calculation factor $f_{2B}$ | 1.01 |
| Calculation factor $f_{2A}$ | 1 |
| Calculation factor - f | 1 |
| Calculation factor - $f_0$ | 14.2 |
| Fatigue load limit - $P_u$ | 1.3 kN |
| Calculation factor - $f_{2C}$ | 1.03 |
| Calculation factor - $f_{2D}$ | 1.06 |
| Calculation factor - $f_{2B}$ | 1.01 |
| Calculation factor - $f_{2A}$ | 1 |
| Calculation factor - $f_{HC}$ | 1.01 |
| Limiting speed for grease lubrication | 20000 r/min |
| Basic static load rating $C_0$ | 31 kN |
| Static axial stiffness, preload class A | 67 N/µm |
| Static axial stiffness, preload class B | 92 N/µm |
| Static axial stiffness, preload class C | 128 N/µm |
| Static axial stiffness, preload class D | 185 N/µm |
| Attainable speed for grease lubrication | 20000 r/min |
| Basic static load rating - $C_0$ | 31 kN |