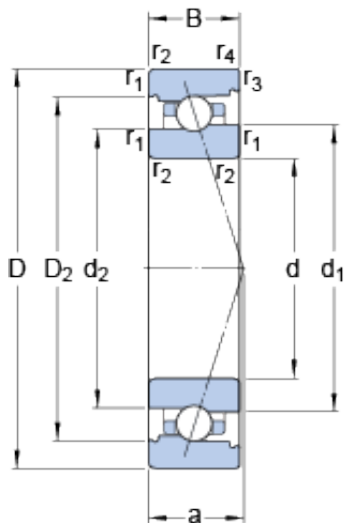




UNF BRAINGS SALES JAPAN CO.,LTD.



45 mm x 68 mm x 12 mm SKF 71909 CB/HCP4A Matched Angular Contact Ball Bearings

Bearing No. 71909 CB/HCP4A

71909 CB/HCP4A Bearing 2D drawings and 3D CAD models

| | |
|---|-------------|
| Size | 68x45x12 mm |
| Bore Diameter | 68 mm |
| Outer Diameter | 45 mm |
| Width | 12 mm |
| d | 45 mm |
| D | 68 mm |
| B | 12 mm |
| d ₁ | 53.45 mm |
| d ₂ | 52.4 mm |
| D ₂ | 61.8 mm |
| r _{1,2} - min. | 0.6 mm |
| r _{3,4} - min. | 0.3 mm |
| a | 16.1 mm |
| d _a - min. | 48.2 mm |
| d _b - min. | 48.2 mm |
| D _a - max. | 64.8 mm |
| D _b - max. | 66 mm |
| r _a - max. | 0.6 mm |
| r _b - max. | 0.3 mm |
| d _n | 54.2 mm |
| Basic dynamic load rating - C | 7.4 kN |
| Basic static load rating - C ₀ | 5.7 kN |
| Fatigue load limit - P _u | 0.245 kN |



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| | |
|---------------------------------------|----------------------|
| Limiting speed for grease lubrication | 32000 r/min |
| Limiting speed for oil lubrication | 50000 mm/min |
| Ball - D_w | 4.762 mm |
| Ball - z | 27 |
| G_{ref} | 1.75 cm ³ |
| Calculation factor - f_0 | 9.7 |
| Preload class A - G_A | 24 N |
| Preload class B - G_B | 48 N |
| Preload class C - G_C | 145 N |
| Calculation factor - f | 1.08 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.03 |
| Calculation factor - f_{2C} | 1.08 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 32 N/micron |
| Preload class B | 41 N/micron |
| Preload class C | 66 N/micron |
| d_1 | 53.45 mm |
| d_2 | 52.4 mm |
| D_2 | 61.8 mm |
| $r_{1,2}$ min. | 0.6 mm |
| $r_{3,4}$ min. | 0.3 mm |
| d_a min. | 48.2 mm |
| d_b min. | 48.2 mm |
| D_a max. | 64.8 mm |
| D_b max. | 66 mm |
| r_a max. | 0.6 mm |
| r_b max. | 0.3 mm |
| | |



UNF BRAINGS SALES JAPAN CO.,LTD.

| | |
|--|----------------------|
| d_n | 54.2 mm |
| Basic dynamic load rating C | 9.95 kN |
| Basic static load rating C_0 | 9.65 kN |
| Fatigue load limit P_u | 0.245 kN |
| Attainable speed for grease lubrication | 32000 r/min |
| Attainable speed for oil-air lubrication | 50000 r/min |
| Ball diameter D_w | 4.762 mm |
| Number of balls z | 27 |
| Reference grease quantity G_{ref} | 1.75 cm ³ |
| Preload class A G_A | 24 N |
| Static axial stiffness, preload class A | 32 N/ μ m |
| Preload class B G_B | 48 N |
| Static axial stiffness, preload class B | 41 N/ μ m |
| Preload class C G_C | 145 N |
| Static axial stiffness, preload class C | 66 N/ μ m |
| Calculation factor f | 1.08 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2C} | 1.08 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor f_0 | 9.7 |
| Mass bearing | 0.13 kg |