



NUP BEARING LTD



15 mm x 35 mm x 11 mm skf 7202
ACD/HCP4A Super-precision Angular contact
ball bearings

Bearing No. 7202 ACD/HCP4A

7202 ACD/HCP4A Bearing 2D drawings and 3D CAD
models

| | |
|---|-------------|
| Size | 35x15x11 mm |
| Bore Diameter | 35 mm |
| Outer Diameter | 15 mm |
| Width | 11 mm |
| d | 15 mm |
| D | 35 mm |
| B | 11 mm |
| d ₁ | 21.4 mm |
| d ₂ | 21.4 mm |
| D ₁ | 29.1 mm |
| r _{1,2} - min. | 0.6 mm |
| r _{3,4} - min. | 0.3 mm |
| a | 11.5 mm |
| d _a - min. | 19.2 mm |
| d _b - min. | 19.2 mm |
| D _a - max. | 30.8 mm |
| D _b - max. | 32.6 mm |
| r _a - max. | 0.6 mm |
| r _b - max. | 0.3 mm |
| d _n | 23 mm |
| Basic dynamic load rating - C | 7.2 kN |
| Basic static load rating - C ₀ | 3.2 kN |
| Fatigue load limit - P _u | 0.134 kN |



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|---------------------------------------|-----------------------|
| Limiting speed for grease lubrication | 50000 r/min |
| Limiting speed for oil lubrication | 75000 mm/min |
| Ball - D_w | 6.35 mm |
| Ball - z | 10 |
| G_{ref} | 0.729 cm ³ |
| Calculation factor - e | 0.68 |
| Calculation factor - Y_2 | 0.87 |
| Calculation factor - Y_0 | 0.38 |
| Calculation factor - X_2 | 0.41 |
| Calculation factor - Y_1 | 0.92 |
| Calculation factor - Y_2 | 1.41 |
| Calculation factor - Y_0 | 0.76 |
| Calculation factor - X_2 | 0.67 |
| Preload class A - G_A | 45 N |
| Preload class B - G_B | 90 N |
| Preload class C - G_C | 180 N |
| Preload class D - G_D | 360 N |
| Calculation factor - f | 1.03 |
| Calculation factor - f_1 | 0.99 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.01 |
| Calculation factor - f_{2C} | 1.03 |
| Calculation factor - f_{2D} | 1.06 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 51 N/micron |
| Preload class B | 66 N/micron |
| Preload class C | 86 N/micron |
| Preload class D | 114 N/micron |



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|------------------------|--|
| Category | Precision Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0.036 |
| Product Group | B04270 |
| Enclosure | Open |
| Precision Class | ABEC 7 ISO P4 |
| Material - Ball | Ceramic |
| Number of Bearings | 1 (Single) |
| Contact Angle | 25 Degree |
| Preload | None |
| Raceway Style | 1 Rib Outer Ring |
| Cage Material | Phenolic |
| Rolling Element | Ball Bearing |
| Flush Ground | No |
| Inch - Metric | Metric |
| Other Features | Single Row Angular Contact High Capacity Basic Design |
| Long Description | 15MM Bore; 35MM Outside Diameter; 11MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra |
| Category | Precision Ball Bearings |
| UNSPSC | 31171531 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Noun | Bearing |
| Keyword String | Ball Angular Contact |
| Manufacturer URL | http://www.skf.com |
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| Outside Diameter | 1.378 Inch 35 Millimeter |
| Width | 0.433 Inch 11 Millimeter |
| Bore | 0.591 Inch 15 Millimeter |
| d_1 | 21.4 mm |
| d_2 | 21.4 mm |
| D_1 | 29.1 mm |
| $r_{1,2}$ min. | 0.6 mm |
| $r_{3,4}$ min. | 0.3 mm |
| d_a min. | 19.2 mm |
| d_b min. | 19.2 mm |
| D_a max. | 30.8 mm |
| D_b max. | 32.6 mm |
| r_a max. | 0.6 mm |
| r_b max. | 0.3 mm |
| d_n | 23 mm |
| Basic dynamic load rating C | 7.15 kN |
| Basic static load rating C_0 | 3.2 kN |
| Fatigue load limit P_u | 0.134 kN |
| Attainable speed for grease lubrication | 50000 r/min |
| Attainable speed for oil-air lubrication | 75000 r/min |
| Ball diameter D_w | 6.35 mm |
| Number of balls z | 10 |
| Reference grease quantity G_{ref} | 0.729 cm ³ |
| Preload class A G_A | 45 N |
| Static axial stiffness, preload class A | 51 N/ μ m |
| Preload class B G_B | 90 N |
| Static axial stiffness, preload class B | 66 N/ μ m |
| Preload class C G_C | 180 N |
| Static axial stiffness, preload | 86 N/ μ m |



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|---|----------------|
| class C | |
| Preload class D G_D | 360 N |
| Static axial stiffness, preload class D | 114 N/ μ m |
| Calculation factor f | 1.03 |
| Calculation factor f_1 | 0.99 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.01 |
| Calculation factor f_{2C} | 1.03 |
| Calculation factor f_{2D} | 1.06 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor e | 0.68 |
| 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 |
| Mass bearing | 0.037 kg |