



Bearing No. 7202 CD/HCP4A

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| a | 9 mm |
| d | 15 mm |
| D | 35 mm |
| B | 11 mm |
| Bore | 0.591 Inch 15 Millimeter |
| Noun | Bearing |
| Width | 0.433 Inch 11 Millimeter |
| UNSPSC | 31171531 |
| Preload | None |
| Ball - z | 10 |
| Category | Precision Ball Bearings |
| Size (mm) | 35x15x11 |
| Enclosure | Open |
| Inventory | 0.0 |
| Width (mm) | 11 |
| Weight / LBS | 0.09 |
| Flush Ground | No |
| Mass bearing | 0.037 kg |
| d ₁ | 21.4 mm |
| d ₂ | 21.4 mm |
| D ₁ | 29.1 mm |
| Inch - Metric | Metric |
| Cage Material | Phenolic |
| Raceway Style | 1 Rib Outer Ring |
| d _n | 23 mm |
| Product Group | B04270 |
| Contact Angle | 15 Degree |
| D ₁ | 29.1 mm |
| d | 23 mm |

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| n | |
| d ₂ | 21.4 mm |
| d ₁ | 21.4 mm |
| Bearing number | 7202 CD/HCP4A |
| Keyword String | Angular Contact Ball |
| Other Features | Single Row Angular Contact Super Precision High Capacity Hybrid Corrosion Resistant Ball |
| Preload class B | 28 N/micron |
| Rolling Element | Ball Bearing |
| Material - Ball | Ceramic |
| Precision Class | ABEC 7 ISO P4 |
| G _{ref} | 0.729 cm ³ |
| Preload class C | 39 N/micron |
| Preload class D | 54 N/micron |
| Preload class A | 21 N/micron |
| Outside Diameter | 1.378 Inch 35 Millimeter |
| Manufacturer URL | http://www.skf.com |
| Long Description | 15MM Bore; 35MM Outside Diameter; 11MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R |
| Manufacturer Name | SKF |
| Number of balls z | 10 |
| Weight / Kilogram | 0.042 |
| d _a min. | 19.2 mm |
| d _b min. | 19.2 mm |

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| Bore Diameter (mm) | 35 |
| Number of Bearings | 1 (Single) |
| r_b max. | 0.3 mm |
| r_a max. | 0.6 mm |
| D_a max. | 30.8 mm |
| D_b max. | 32.6 mm |
| Outer Diameter (mm) | 15 |
| $r_{1,2}$ min. | 0.6 mm |
| $r_{3,4}$ min. | 0.3 mm |
| d_a - min. | 19.2 mm |
| Calculation factor f | 1.03 |
| d_b - min. | 19.2 mm |
| Ball - D_w | 6.35 mm |
| D_a - max. | 30.8 mm |
| Minimum Buy Quantity | N/A |
| r_a - max. | 0.6 mm |
| r_b - max. | 0.3 mm |
| D_b - max. | 32.6 mm |
| Harmonized Tariff Code | 8482.10.50.28 |
| Calculation factor - f | 1.03 |
| $r_{3,4}$ - min. | 0.3 mm |
| $r_{1,2}$ - min. | 0.6 mm |
| Manufacturer Item Number | 7202 CD/HCP4A |
| Basic dynamic load rating C | 7.41 kN |
| Ball diameter D_w | 6.35 mm |
| Preload class B G_B | 60 N |
| Preload class A G_A | 30 N |
| Preload class C G_C | 120 N |
| Preload class D G_D | 240 N |
| Basic dynamic load rating - C | 7.4 kN |

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| Preload class B - G_B | 60 N |
| Preload class C - G_C | 120 N |
| Preload class A - G_A | 30 N |
| Preload class D - G_D | 240 N |
| Calculation factor f_1 | 1 |
| Fatigue load limit P_u | 0.14 kN |
| Calculation factor f_0 | 8.5 |
| Calculation factor - f | 1 |
| 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 - f_0 | 8.5 |
| Fatigue load limit - P_u | 0.14 kN |
| Limiting speed for oil lubrication | 85000 mm/min |
| Calculation factor - f_{2B} | 1.01 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2C} | 1.03 |
| Calculation factor - f_{2D} | 1.06 |
| Calculation factor - f_{HC} | 1.01 |
| Limiting speed for grease lubrication | 60000 r/min |
| Basic static load rating C_0 | 3.35 kN |
| Static axial stiffness, preload class A | 21 N/ μ m |
| Static axial stiffness, preload class B | 28 N/ μ m |
| Static axial stiffness, preload class C | 39 N/ μ m |

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| Static axial stiffness, preload class D | 54 N/ μ m |
| Attainable speed for grease lubrication | 60000 r/min |
| Attainable speed for oil-air lubrication | 85000 r/min |
| Basic static load rating - C_0 | 3.4 kN |
| Reference grease quantity G_{ref} | 0.729 cm ³ |