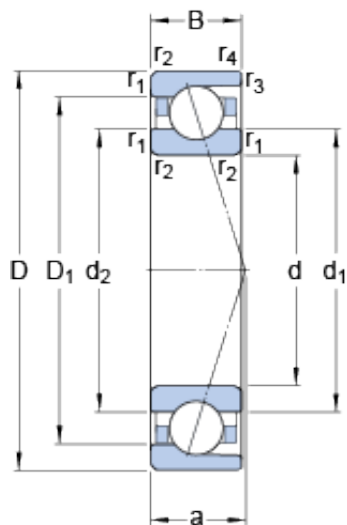




ISOSTATIC BEARING LIMITED

71902 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71902 CD/HCP4A



71902 CD/HCP4A Bearing 2D drawings and 3D CAD models

| | |
|---|-------------|
| Size | 28x15x7 mm |
| Bore Diameter | 28 mm |
| Outer Diameter | 15 mm |
| Width | 7 mm |
| d | 15 mm |
| D | 28 mm |
| B | 7 mm |
| d ₁ | 18.9 mm |
| d ₂ | 18.9 mm |
| D ₁ | 23.7 mm |
| r _{1,2} - min. | 0.3 mm |
| r _{3,4} - min. | 0.2 mm |
| a | 6.4 mm |
| d _a - min. | 17 mm |
| d _b - min. | 17 mm |
| D _a - max. | 26 mm |
| D _b - max. | 26.6 mm |
| r _a - max. | 0.3 mm |
| r _b - max. | 0.2 mm |
| d _n | 20.1 mm |
| Basic dynamic load rating - C | 4 kN |
| Basic static load rating - C ₀ | 1.9 kN |
| Fatigue load limit - P _u | 0.08 kN |
| Limiting speed for grease | 70000 r/min |



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|------------------------------------|-------------------------|
| Lubrication | |
| Limiting speed for oil lubrication | 100000 mm/min |
| Ball - D_w | 3.969 mm |
| Ball - z | 13 |
| G_{ref} | 0.21 cm ³ |
| Calculation factor - f_0 | 9.6 |
| Preload class A - G_A | 15 N |
| Preload class B - G_B | 30 N |
| Preload class C - G_C | 60 N |
| Preload class D - G_D | 120 N |
| Calculation factor - f | 1.05 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.07 |
| Calculation factor - f_{2C} | 1.12 |
| Calculation factor - f_{2D} | 1.18 |
| Calculation factor - f_{HC} | 1.04 |
| Preload class A | 18 N/micron |
| Preload class B | 23 N/micron |
| Preload class C | 32 N/micron |
| Preload class D | 45 N/micron |
| Category | Precision Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0.019 |
| Product Group | B04270 |
| Enclosure | Open |
| Precision Class | ABEC 7 ISO P4 |
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|--------------------------|--|
| Material - Ball | Ceramic |
| Number of Bearings | 1 (Single) |
| Contact Angle | 15 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 Precision Hybrid Corrosion Resistant Ball |
| Long Description | 15MM Bore; 28MM Outside Diameter; 7MM 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 Ra |
| Category | Precision Ball Bearings |
| UNSPSC | 31171531 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Noun | Bearing |
| Keyword String | Angular Contact Ball |
| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 71902 CD/HCP4A |
| Weight / LBS | 0.042 |
| Width | 0.276 Inch 7 Millimeter |
| Bore | 0.591 Inch 15 Millimeter |
| Outside Diameter | 1.102 Inch 28 Millimeter |
| d ₁ | 18.9 mm |
| d ₂ | 18.9 mm |
| D ₁ | 23.7 mm |



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|--|----------------------|
| $r_{1,2}$ min. | 0.3 mm |
| $r_{3,4}$ min. | 0.2 mm |
| d_a min. | 17 mm |
| d_b min. | 17 mm |
| D_a max. | 26 mm |
| D_b max. | 26.6 mm |
| r_a max. | 0.3 mm |
| r_b max. | 0.2 mm |
| d_n | 20.1 mm |
| Basic dynamic load rating C | 3.97 kN |
| Basic static load rating C_0 | 1.9 kN |
| Fatigue load limit P_u | 0.08 kN |
| Attainable speed for grease lubrication | 70000 r/min |
| Attainable speed for oil-air lubrication | 100000 r/min |
| Ball diameter D_w | 3.969 mm |
| Number of balls z | 13 |
| Reference grease quantity G_{ref} | 0.21 cm ³ |
| Preload class A G_A | 15 N |
| Static axial stiffness, preload class A | 18 N/ μ m |
| Preload class B G_B | 30 N |
| Static axial stiffness, preload class B | 23 N/ μ m |
| Preload class C G_C | 60 N |
| Static axial stiffness, preload class C | 32 N/ μ m |
| Preload class D G_D | 120 N |
| Static axial stiffness, preload class D | 45 N/ μ m |
| Calculation factor f | 1.05 |
| Calculation factor f_1 | 1 |
| | |



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|-----------------------------|----------|
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.07 |
| Calculation factor f_{2C} | 1.12 |
| Calculation factor f_{2D} | 1.18 |
| Calculation factor f_{HC} | 1.04 |
| Calculation factor f_0 | 9.6 |
| Mass bearing | 0.014 kg |