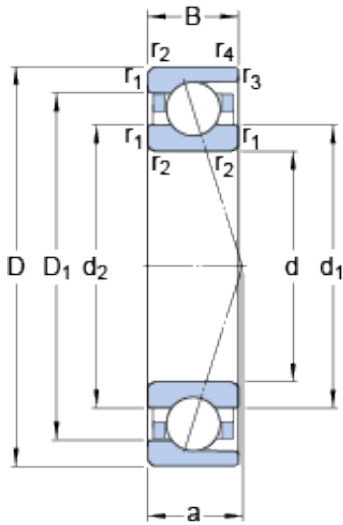




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71902 CD/HCP4A Bearing 2D drawings and 3D CAD models

15 mm x 28 mm x 7 mm SKF 71902
CD/HCP4A angular contact ball bearings

Bearing No. 71902 CD/HCP4A

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