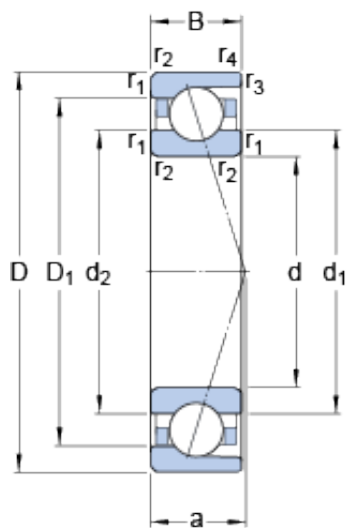




Bearing No. 7002 CD/HCP4A

D	32 mm
d	15 mm
B	9 mm
a	7.7 mm
Noun	Bearing
Bore	0.591 Inch 15 Millimeter
Width	0.354 Inch 9 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	12
Inventory	0.0
Enclosure	Open
Size (mm)	32x15x9
Width (mm)	9
Flush Ground	No
Mass bearing	0.027 kg
d ₁	20.6 mm
d ₂	20.6 mm
d _n	21.5 mm
Inch - Metric	Metric
D ₁	26.4 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	20.6 mm
Contact Angle	15 Degree
d ₁	20.6 mm
D ₁	26.4 mm
d _n	21.5 mm

Product Group	B04270
Other Features	Single Row Angular Contact High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7002 CD/HCP4A
Material - Ball	Ceramic
Preload class A	19 N/micron
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	49 N/micron
G _{ref}	0.39 cm ³
Preload class B	25 N/micron
Preload class C	35 N/micron
Manufacturer URL	http://www.skf.com
Long Description	15MM Bore; 32MM Outside Diameter; 9MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Rac
Outside Diameter	1.26 Inch 32 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	12
D _a max.	30 mm
D _b max.	30.6 mm
r _a max.	0.3 mm
r _b max.	0.2 mm
d _b min.	17 mm
d _a min.	17 mm

Bore Diameter (mm)	32
Number of Bearings	1 (Single)
Outer Diameter (mm)	15
Ball - D_w	4.762 mm
D_a - max.	30 mm
$r_{3,4}$ min.	0.2 mm
$r_{1,2}$ min.	0.3 mm
d_a - min.	17 mm
d_b - min.	17 mm
Minimum Buy Quantity	N/A
D_b - max.	30.6 mm
r_a - max.	0.3 mm
r_b - max.	0.2 mm
Calculation factor f	1.03
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.2 mm
$r_{1,2}$ - min.	0.3 mm
Basic dynamic load rating C	5.2 kN
Ball diameter D_w	4.762 mm
Preload class A G_A	20 N
Basic dynamic load rating - C	5.2 kN
Preload class B G_B	40 N
Preload class C G_C	80 N
Preload class D G_D	160 N
Preload class D - G_D	160 N
Preload class B - G_B	40 N
Preload class C - G_C	80 N
Preload class A - G_A	20 N
Calculation factor f_0	9.3

Fatigue load limit P_u	0.104 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1.02
Calculation factor f_{2D}	1.09
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor - f_0	9.3
Limiting speed for oil lubrication	100000 mm/min
Fatigue load limit - P_u	0.104 kN
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2D}	1.09
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	67000 r/min
Basic static load rating C_0	2.45 kN
Static axial stiffness, preload class B	25 N/ μ m
Static axial stiffness, preload class C	35 N/ μ m
Static axial stiffness, preload class D	49 N/ μ m
Static axial stiffness, preload class A	19 N/ μ m
Attainable speed for grease lubrication	67000 r/min
Attainable speed for oil-air lubrication	100000 r/min

Basic static load rating - C_0	2.4 kN
Reference grease quantity G_{ref}	0.39 cm ³