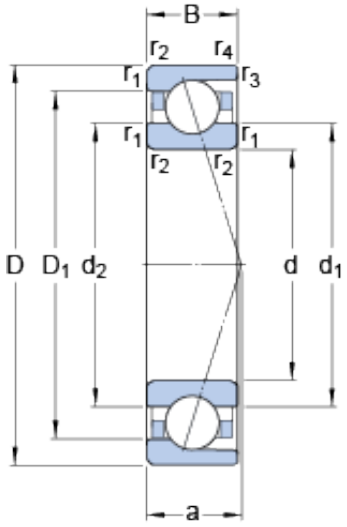
Loyal | 7008 CD/HCP4A



Bearing No. 7008 CD/HCP4A

a	14.8 mm
d	40 mm
D	68 mm
B	15 mm
Noun	Bearing
Bore	1.575 Inch | 40 Millimeter
Width	0.591 Inch | 15 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	18
Category	Precision Ball Bearings
Size (mm)	68x40x15
Enclosure	Open
Inventory	0.0
Width (mm)	15
Weight / LBS	0.399
Flush Ground	No
Mass bearing	0.17 kg
d_1	49.2 mm
d_2	49.2 mm
D_1	58.8 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d_n	50.8 mm
Product Group	B04270
Contact Angle	15 Degree
D_1	58.8 mm
d	50.8 mm

$_n$	
d_2	49.2 mm
d_1	49.2 mm
Bearing number	7008 CD/HCP4A
Keyword String	Angular Contact Ball
Other Features	Single Row | Angular Contact | High Precision | Hybrid | Corrosion Resistant Ball
Preload class B	56 N/micron
Rolling Element	Ball Bearing
Material - Ball	Ceramic
Precision Class	ABEC 7 | ISO P4
G_{ref}	2.4 cm3
Preload class C	76 N/micron
Preload class D	107 N/micron
Preload class A	42 N/micron
Outside Diameter	2.677 Inch | 68 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	40MM Bore; 68MM Outside Diameter; 15MM 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	18
Weight / Kilogram	0.183
d_a min.	44.6 mm
d_b min.	44.6 mm
Bore Diameter (mm)	68

Number of Bearings	1 (Single)
r_b max.	0.3 mm
r_a max.	1 mm
D_a max.	63.4 mm
D_b max.	66 mm
Outer Diameter (mm)	40
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a - min.	44.6 mm
Calculation factor f	1.06
d_b - min.	44.6 mm
Ball - D_w	7.938 mm
D_a - max.	63.4 mm
Minimum Buy Quantity	N/A
r_a - max.	1 mm
r_b - max.	0.3 mm
D_b - max.	66 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.06
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	1 mm
Manufacturer Item Number	7008 CD/HCP4A
Basic dynamic load rating C	16.8 kN
Ball diameter D_w	7.938 mm
Preload class B G_B	120 N
Preload class A G_A	60 N
Preload class C G_C	240 N
Preload class D G_D	480 N
Basic dynamic load rating - C	16.8 kN
Preload class B - G_B	120 N

Preload class C - G_C	240 N
Preload class A - G_A	60 N
Preload class D - G_D	480 N
Calculation factor f_1	1
Fatigue load limit P_u	0.465 kN
Calculation factor f_0	10
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor - f_0	10
Fatigue load limit - P_u	0.465 kN
Limiting speed for oil lubrication	38000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Limiting speed for grease lubrication	24000 r/min
Basic static load rating C_0	11 kN
Static axial stiffness, preload class A	42 N/µm
Static axial stiffness, preload class B	56 N/µm
Static axial stiffness, preload class C	76 N/µm
Static axial stiffness,	107 N/µm

preload class D	
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Basic static load rating - C_0	11 kN
Reference grease quantity G_{ref}	2.4 cm^3