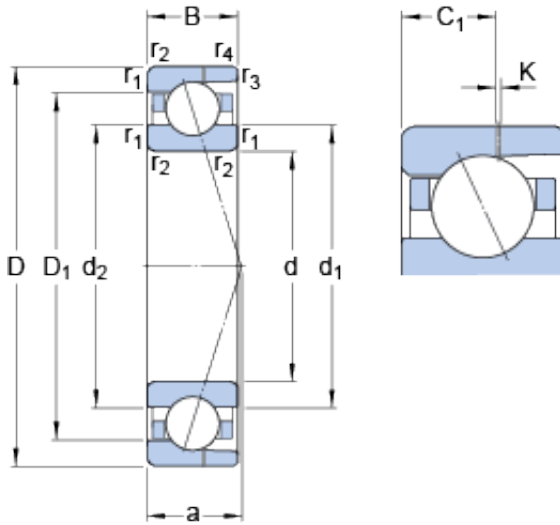




NTN Bearing Manufacturing of Canada



8 mm x 22 mm x 7 mm SKF 708 CD/HCP4AH
angular contact ball bearings

Bearing No. 708 CD/HCP4AH

708 CD/HCP4AH Bearing 2D drawings and 3D CAD
models

Size	22x8x7 mm
Bore Diameter	22 mm
Outer Diameter	8 mm
Width	7 mm
d	8 mm
D	22 mm
B	7 mm
d ₁	12.6 mm
d ₂	12.6 mm
D ₁	17.4 mm
K	0.5 mm
C ₁	4.25 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	5.5 mm
d _a - min.	10 mm
d _b - min.	10 mm
D _a - max.	20 mm
D _b - max.	20.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	13.6 mm
Basic dynamic load rating - C	3.2 kN
Basic static load rating - C ₀	1.4 kN



NTN Bearing Manufacturing of Canada

Fatigue load limit - P_u	0.057 kN
Limiting speed for grease lubrication	110000 r/min
Limiting speed for oil lubrication	160000 mm/min
Ball - D_w	3.969 mm
Ball - z	9
G_{ref}	0.15 cm ³
Calculation factor - f_0	8.4
Preload class A - G_A	10 N
Preload class B - G_B	20 N
Preload class C - G_C	40 N
Preload class D - G_D	80 N
Calculation factor - f	1.02
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
Preload class A	12 N/micron
Preload class B	16 N/micron
Preload class C	21 N/micron
Preload class D	30 N/micron
d_1	12.6 mm
d_2	12.6 mm
D_1	17.4 mm
C_1	4.25 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	10 mm



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d_b min.	10 mm
D_a max.	20 mm
D_b max.	20.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	13.6 mm
Basic dynamic load rating C	3.25 kN
Basic static load rating C_0	1.37 kN
Fatigue load limit P_u	0.057 kN
Attainable speed for grease lubrication	110000 r/min
Attainable speed for oil-air lubrication	160000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	9
Reference grease quantity G_{ref}	0.15 cm ³
Preload class A G_A	10 N
Static axial stiffness, preload class A	12 N/ μ m
Preload class B G_B	20 N
Static axial stiffness, preload class B	16 N/ μ m
Preload class C G_C	40 N
Static axial stiffness, preload class C	21 N/ μ m
Preload class D G_D	80 N
Static axial stiffness, preload class D	30 N/ μ m
Calculation factor f	1.02
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



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Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	8.4
Mass bearing	0.011 kg