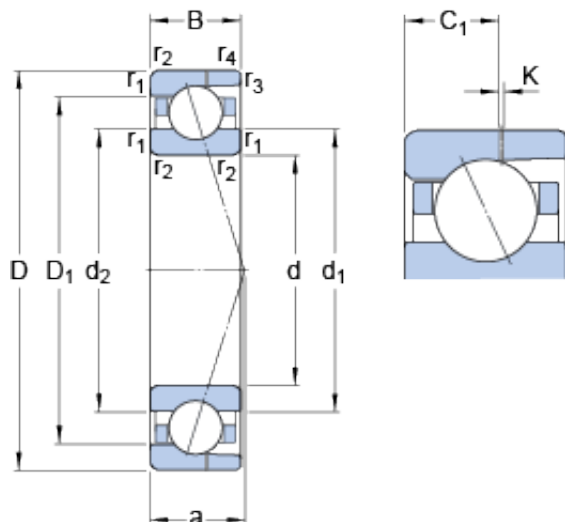




NACHI BEARINGS TRAINING INDUSTRY



7 mm x 19 mm x 6 mm SKF 707 ACD/P4AH
angular contact ball bearings

Bearing No. 707 ACD/P4AH

707 ACD/P4AH Bearing 2D drawings and 3D CAD models

Size	19x7x6 mm
Bore Diameter	19 mm
Outer Diameter	7 mm
Width	6 mm
d	7 mm
D	19 mm
B	6 mm
d ₁	10.8 mm
d ₂	10.8 mm
D ₁	15.2 mm
K	0.5 mm
C ₁	3.65 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	6.1 mm
d _a - min.	9 mm
d _b - min.	9 mm
D _a - max.	17 mm
D _b - max.	18.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	11.7 mm
Basic dynamic load rating - C	2.4 kN
Basic static load rating - C ₀	0.95 kN



NACHI BEARINGS TRAINING INDUSTRY

Fatigue load limit - P_u	0.04 kN
Limiting speed for grease lubrication	95000 r/min
Limiting speed for oil lubrication	140000 mm/min
Ball - D_w	3.572 mm
Ball - z	8
G_{ref}	0.12 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
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	1.03
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Preload class A	23 N/micron
Preload class B	29 N/micron
Preload class C	38 N/micron



NACHI BEARINGS TRAINING INDUSTRY

Preload class D	51 N/micron
d_1	10.8 mm
d_2	10.8 mm
D_1	15.2 mm
C_1	3.65 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	9 mm
d_b min.	9 mm
D_a max.	17 mm
D_b max.	18.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	11.7 mm
Basic dynamic load rating C	2.42 kN
Basic static load rating C_0	0.95 kN
Fatigue load limit P_u	0.04 kN
Attainable speed for grease lubrication	95000 r/min
Attainable speed for oil-air lubrication	140000 r/min
Ball diameter D_w	3.572 mm
Number of balls z	8
Reference grease quantity G_{ref}	0.12 cm ³
Preload class A G_A	15 N
Static axial stiffness, preload class A	23 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	29 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	38 N/ μ m



NACHI BEARINGS TRAINING INDUSTRY

Preload class D G_D	120 N
Static axial stiffness, preload class D	51 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.008 kg