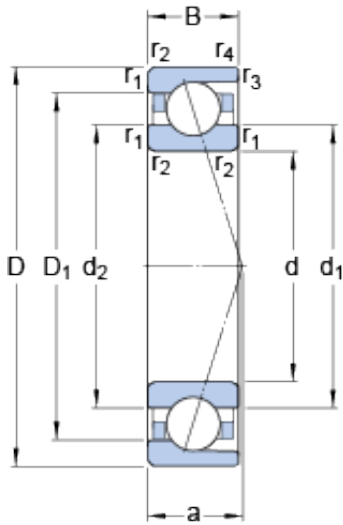




# Toyana Bearing Manufacturing of Canada



706 ACD/P4A Bearing 2D drawings and 3D CAD models

6 mm x 17 mm x 6 mm SKF 706 ACD/P4A  
angular contact ball bearings

Bearing No. 706 ACD/P4A

Size	17x6x6 mm
Bore Diameter	17 mm
Outer Diameter	6 mm
Width	6 mm
d	6 mm
D	17 mm
B	6 mm
d <sub>1</sub>	9.5 mm
d <sub>2</sub>	9.5 mm
D <sub>1</sub>	13.5 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	5.7 mm
d <sub>a</sub> - min.	8 mm
d <sub>b</sub> - min.	8 mm
D <sub>a</sub> - max.	15 mm
D <sub>b</sub> - max.	16.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	10.3 mm
Basic dynamic load rating - C	2 kN
Basic static load rating - C <sub>0</sub>	0.75 kN
Fatigue load limit - P <sub>u</sub>	0.032 kN
Limiting speed for grease	110000 r/min



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Lubrication	
Limiting speed for oil lubrication	160000 mm/min
Ball - $D_w$	3.175 mm
Ball - $z$	8
$G_{ref}$	0.09 cm3
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 - $G_A$	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 - $f$	1.01
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	19 N/micron
Preload class B	25 N/micron
Preload class C	32 N/micron
Preload class D	43 N/micron



## Toyana Bearing Manufacturing of Canada

$d_1$	9.5 mm
$d_2$	9.5 mm
$D_1$	13.5 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$d_a$ min.	8 mm
$d_b$ min.	8 mm
$D_a$ max.	15 mm
$D_b$ max.	16.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	10.3 mm
Basic dynamic load rating C	1.95 kN
Basic static load rating $C_0$	0.75 kN
Fatigue load limit $P_u$	0.032 kN
Attainable speed for grease lubrication	110000 r/min
Attainable speed for oil-air lubrication	160000 r/min
Ball diameter $D_w$	3.175 mm
Number of balls z	8
Reference grease quantity $G_{ref}$	0.09 cm <sup>3</sup>
Preload class A $G_A$	10 N
Static axial stiffness, preload class A	19 N/ $\mu$ m
Preload class B $G_B$	20 N
Static axial stiffness, preload class B	25 N/ $\mu$ m
Preload class C $G_C$	40 N
Static axial stiffness, preload class C	32 N/ $\mu$ m
Preload class D $G_D$	80 N
Static axial stiffness, preload class D	43 N/ $\mu$ m



## Toyana Bearing Manufacturing of Canada

class D	
Calculation factor f	1.01
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	0.006 kg