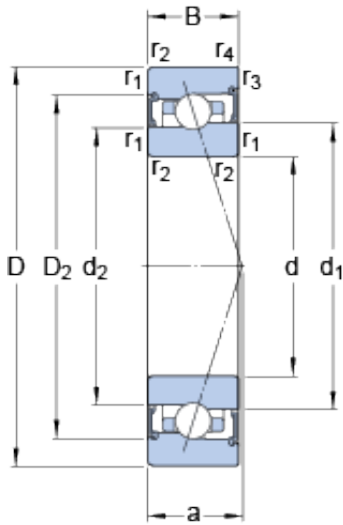




# NTN Bearing Manufacturing



S71911 ACB/P4A Bearing 2D drawings and 3D CAD models

55 mm x 80 mm x 13 mm SKF S71911  
ACB/P4A angular contact ball bearings

Bearing No. S71911 ACB/P4A

Size	80x55x13 mm
Bore Diameter	80 mm
Outer Diameter	55 mm
Width	13 mm
d	55 mm
D	80 mm
B	13 mm
d <sub>1</sub>	63.94 mm
d <sub>2</sub>	62.7 mm
D <sub>2</sub>	73.2 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	26 mm
d <sub>a</sub> - min.	59.6 mm
d <sub>a</sub> - max.	63.3 mm
d <sub>b</sub> - min.	59.6 mm
d <sub>b</sub> - max.	62.1 mm
D <sub>a</sub> - max.	75.4 mm
D <sub>b</sub> - max.	78 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
Basic dynamic load rating - C	9.4 kN
Basic static load rating - C <sub>0</sub>	7.6 kN
Fatigue load limit - P <sub>u</sub>	0.325 kN



## NTN Bearing Manufacturing

Limiting speed for grease lubrication	20000 r/min
Ball - $D_w$	5.556 mm
Ball - z	28
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 - $G_A$	55 N
Preload class B - $G_B$	110 N
Preload class C - $G_C$	330 N
Calculation factor - f	1.09
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.07
Calculation factor - $f_{HC}$	1
Preload class A	88 N/micron
Preload class B	114 N/micron
Preload class C	172 N/micron
$d_1$	63.94 mm
$d_2$	62.7 mm
$D_2$	73.2 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	59.6 mm



## NTN Bearing Manufacturing

$d_a$ max.	63.3 mm
$d_b$ min.	59.6 mm
$d_b$ max.	62.1 mm
$D_a$ max.	75.4 mm
$D_b$ max.	78 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
Basic dynamic load rating C	12.7 kN
Basic static load rating $C_0$	12.7 kN
Fatigue load limit $P_u$	0.325 kN
Attainable speed for grease lubrication	20000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	28
Preload class A $G_A$	55 N
Static axial stiffness, preload class A	88 N/ $\mu$ m
Preload class B $G_B$	110 N
Static axial stiffness, preload class B	114 N/ $\mu$ m
Preload class C $G_C$	330 N
Static axial stiffness, preload class C	172 N/ $\mu$ m
Calculation factor f	1.09
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.07
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



## NTN Bearing Manufacturing

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	0.19 kg