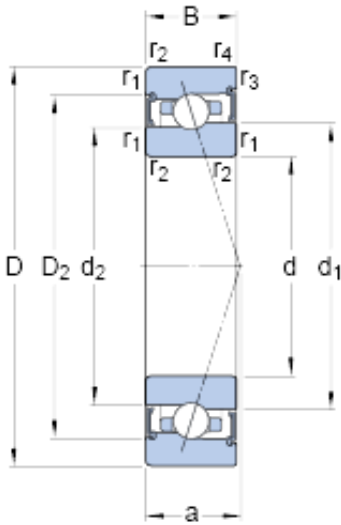




# NTN Bearing Rolamentos do Brasil Ltda.



55 mm x 80 mm x 13 mm skf S71911  
CB/HCP4A Super-precision Angular contact ball bearings

Bearing No. S71911 CB/HCP4A

S71911 CB/HCP4A Bearing 2D drawings and 3D CAD models

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	18.8 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	10 kN
Basic static load rating - C <sub>0</sub>	8.2 kN



## NTN Bearing Rolamentos do Brasil Ltda.

Fatigue load limit - $P_u$	0.345 kN
Limiting speed for grease lubrication	28000 r/min
Ball - $D_w$	5.556 mm
Ball - $z$	28
Calculation factor - $f_0$	9.8
Preload class A - $G_A$	33 N
Preload class B - $G_B$	66 N
Preload class C - $G_C$	200 N
Calculation factor - $f$	1.09
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1.01
Preload class A	38 N/micron
Preload class B	50 N/micron
Preload class C	80 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
$d_a$ 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



## NTN Bearing Rolamentos do Brasil Ltda.

Basic dynamic load rating C	13.5 kN
Basic static load rating $C_0$	13.7 kN
Fatigue load limit $P_u$	0.345 kN
Attainable speed for grease lubrication	28000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	28
Preload class A $G_A$	33 N
Static axial stiffness, preload class A	38 N/ $\mu$ m
Preload class B $G_B$	66 N
Static axial stiffness, preload class B	50 N/ $\mu$ m
Preload class C $G_C$	200 N
Static axial stiffness, preload class C	80 N/ $\mu$ m
Calculation factor f	1.09
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	9.8
Mass bearing	0.18 kg