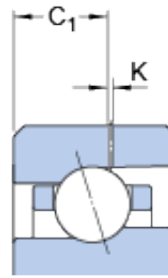
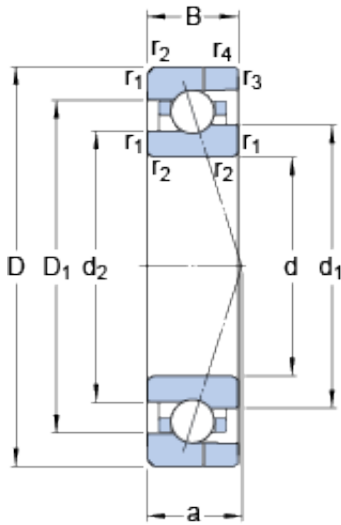




# BEARING USA CORP.



## 7 mm x 19 mm x 6 mm SKF 707 CE/HCP4AH Angular contact ball bearings

Bearing No. 707 CE/HCP4AH

707 CE/HCP4AH 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 <sub>1</sub>	10.4 mm
d <sub>2</sub>	9.9 mm
D <sub>1</sub>	15.7 mm
K	0.5 mm
C <sub>1</sub>	3.65 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	4.8 mm
d <sub>a</sub> - min.	9 mm
d <sub>b</sub> - min.	9 mm
D <sub>a</sub> - max.	17 mm
D <sub>b</sub> - max.	17.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	11.4 mm
Basic dynamic load rating - C	2 kN
Basic static load rating - C <sub>0</sub>	0.64 kN



## BEARING USA CORP.

Fatigue load limit - $P_u$	0.027 kN
Limiting speed for grease lubrication	150000 r/min
Limiting speed for oil lubrication	230000 mm/min
Ball - $D_w$	3.572 mm
Ball - $z$	8
$G_{ref}$	0.11 cm <sup>3</sup>
Calculation factor - $f_0$	6.5
Preload class A - $G_A$	10 N
Preload class B - $G_B$	30 N
Preload class C - $G_C$	60 N
Calculation factor - $f$	1.02
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Preload class A	9 N/micron
Preload class B	14 N/micron
Preload class C	20 N/micron
$d_1$	10.4 mm
$d_2$	9.9 mm
$D_1$	15.7 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.	17.6 mm



## BEARING USA CORP.

$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	11.4 mm
Basic dynamic load rating C	1.95 kN
Basic static load rating $C_0$	0.64 kN
Fatigue load limit $P_u$	0.027 kN
Attainable speed for grease lubrication	150000 r/min
Attainable speed for oil-air lubrication	230000 r/min
Ball diameter $D_w$	3.572 mm
Number of balls z	8
Reference grease quantity $G_{ref}$	0.11 cm <sup>3</sup>
Preload class A $G_A$	10 N
Static axial stiffness, preload class A	9 N/ $\mu$ m
Preload class B $G_B$	30 N
Static axial stiffness, preload class B	14 N/ $\mu$ m
Preload class C $G_C$	60 N
Static axial stiffness, preload class C	20 N/ $\mu$ m
Calculation factor f	1.02
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	6.5
Mass bearing	0.006 kg