



**Bearing No. S7202 CD/P4A**

D	35 mm
d	15 mm
B	11 mm
a	9 mm
Ball - z	10
Size (mm)	35x15x11
Width (mm)	11
Mass bearing	0.044 kg
D <sub>2</sub>	30.7 mm
d <sub>2</sub>	21.4 mm
d <sub>1</sub>	21.4 mm
d <sub>2</sub>	21.4 mm
D <sub>2</sub>	30.7 mm
d <sub>1</sub>	21.4 mm
Bearing number	S7202 CD/P4A
Preload class A	19 N/micron
Preload class B	26 N/micron
Preload class D	49 N/micron
Preload class C	35 N/micron
Number of balls z	10
r <sub>b</sub> max.	0.3 mm
r <sub>a</sub> max.	0.6 mm
D <sub>b</sub> max.	32.6 mm
D <sub>a</sub> max.	30.8 mm
d <sub>b</sub> max.	20.8 mm
d <sub>a</sub> max.	20.8 mm
d <sub>a</sub> min.	19.2 mm
Bore Diameter (mm)	35
d <sub>b</sub> min.	19.2 mm
Outer Diameter (mm)	15

$r_{3,4}$ min.	0.3 mm
$d_b$ - min.	19.2 mm
Calculation factor f	1.03
$d_a$ - max.	20.8 mm
$r_{1,2}$ min.	0.6 mm
$d_a$ - min.	19.2 mm
$d_b$ - max.	20.8 mm
$D_a$ - max.	30.8 mm
$D_b$ - max.	32.6 mm
$r_a$ - max.	0.6 mm
$r_b$ - max.	0.3 mm
Ball - $D_w$	6.35 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.03
$r_{1,2}$ - min.	0.6 mm
Ball diameter $D_w$	6.35 mm
Basic dynamic load rating C	7.41 kN
Preload class A $G_A$	30 N
Basic dynamic load rating - C	7.4 kN
Preload class C $G_C$	120 N
Preload class D $G_D$	240 N
Preload class B $G_B$	60 N
Preload class C - $G_C$	120 N
Preload class D - $G_D$	240 N
Preload class B - $G_B$	60 N
Preload class A - $G_A$	30 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	0.14 kN
Calculation factor $f_0$	8.5
Calculation factor $f_{2D}$	1.05

Calculation factor $f_{HC}$	1
Calculation factor $f_{2C}$	1.03
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2A}$	1
Calculation factor - $f$	1
Calculation factor - $f_0$	8.5
Fatigue load limit - $P_u$	0.14 kN
Calculation factor - $f_{2C}$	1.03
Calculation factor - $f_{2D}$	1.05
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{HC}$	1
Limiting speed for grease lubrication	48000 r/min
Basic static load rating $C_0$	3.35 kN
Static axial stiffness, preload class A	19 N/ $\mu$ m
Static axial stiffness, preload class B	26 N/ $\mu$ m
Static axial stiffness, preload class C	35 N/ $\mu$ m
Static axial stiffness, preload class D	49 N/ $\mu$ m
Attainable speed for grease lubrication	48000 r/min
Basic static load rating - $C_0$	3.4 kN