



KOYO PRECISION AXLE CORP.



55 mm x 100 mm x 21 mm SKF S7211 CD/P4A
angular contact ball bearings

Bearing No. S7211 CD/P4A

S7211 CD/P4A Bearing 2D drawings and 3D CAD models

Size	100x55x21 mm
Bore Diameter	100 mm
Outer Diameter	55 mm
Width	21 mm
d	55 mm
D	100 mm
B	21 mm
d ₁	68.9 mm
d ₂	68.9 mm
D ₂	89.1 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	0.6 mm
a	21 mm
d _a - min.	64 mm
d _a - max.	68.1 mm
d _b - min.	64 mm
d _b - max.	68.1 mm
D _a - max.	91 mm
D _b - max.	95.8 mm
r _a - max.	1.5 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	55.3 kN
Basic static load rating - C ₀	43 kN
Fatigue load limit - P _u	1.8 kN



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Limiting speed for grease lubrication	14000 r/min
Ball - D_w	14.288 mm
Ball - z	15
Calculation factor - f_0	14.5
Preload class A - G_A	210 N
Preload class B - G_B	420 N
Preload class C - G_C	840 N
Preload class D - G_D	1680 N
Calculation factor - f	1.08
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Preload class A	72 N/micron
Preload class B	98 N/micron
Preload class C	137 N/micron
Preload class D	197 N/micron
d_1	68.9 mm
d_2	68.9 mm
D_2	89.1 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	64 mm
d_a max.	68.1 mm
d_b min.	64 mm
d_b max.	68.1 mm
D_a max.	91 mm
D_b max.	95.8 mm



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r_a max.	1.5 mm
r_b max.	0.6 mm
Basic dynamic load rating C	55.3 kN
Basic static load rating C_0	43 kN
Fatigue load limit P_u	1.8 kN
Attainable speed for grease lubrication	14000 r/min
Ball diameter D_w	14.288 mm
Number of balls z	15
Preload class A G_A	210 N
Static axial stiffness, preload class A	72 N/ μ m
Preload class B G_B	420 N
Static axial stiffness, preload class B	98 N/ μ m
Preload class C G_C	840 N
Static axial stiffness, preload class C	137 N/ μ m
Preload class D G_D	1680 N
Static axial stiffness, preload class D	197 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	14.5
Mass bearing	0.62 kg