



**15 mm x 32 mm x 9 mm SKF 7002 CE/P4A
angular contact ball bearings**

Bearing No. 7002 CE/P4A

7002 CE/P4A Bearing 2D drawings and 3D CAD models

Size	32x15x9 mm
Bore Diameter	32 mm
Outer Diameter	15 mm
Width	9 mm
d	15 mm
D	32 mm
B	9 mm
d ₁	20.65 mm
d ₂	19.5 mm
D ₁	26.9 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	7.7 mm
d _a - min.	17 mm
d _b - min.	17 mm
D _a - max.	30 mm
D _b - max.	30.6 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	21.9 mm
Basic dynamic load rating - C	4.4 kN
Basic static load rating - C ₀	1.9 kN
Fatigue load limit - P _u	0.08 kN
Limiting speed for grease	68000 r/min



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Lubrication	
Limiting speed for oil lubrication	106000 mm/min
Ball - D_w	4.762 mm
Ball - z	12
G_{ref}	0.5 cm ³
Calculation factor - f_0	7.3
Preload class A - G_A	25 N
Preload class B - G_B	70 N
Preload class C - G_C	140 N
Calculation factor - f	1.03
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
Preload class A	16 N/micron
Preload class B	25 N/micron
Preload class C	34 N/micron
d_1	20.65 mm
d_2	19.5 mm
D_1	26.9 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	17 mm
d_b min.	17 mm
D_a max.	30 mm
D_b max.	30.6 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	21.9 mm



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Basic dynamic load rating C	4.42 kN
Basic static load rating C_0	1.93 kN
Fatigue load limit P_u	0.08 kN
Attainable speed for grease lubrication	68000 r/min
Attainable speed for oil-air lubrication	106000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	12
Reference grease quantity G_{ref}	0.5 cm ³
Preload class A G_A	25 N
Static axial stiffness, preload class A	16 N/ μ m
Preload class B G_B	70 N
Static axial stiffness, preload class B	25 N/ μ m
Preload class C G_C	140 N
Static axial stiffness, preload class C	34 N/ μ m
Calculation factor f	1.03
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
Calculation factor f_0	7.3
Mass bearing	0.028 kg