



KRS Guide Wheel Bearing Co., Ltd



20 mm x 47 mm x 14 mm SKF S7204 CD/P4A
angular contact ball bearings

Bearing No. S7204 CD/P4A

S7204 CD/P4A Bearing 2D drawings and 3D CAD models

Size	47x20x14 mm
Bore Diameter	47 mm
Outer Diameter	20 mm
Width	14 mm
d	20 mm
D	47 mm
B	14 mm
d ₁	29.1 mm
d ₂	29.1 mm
D ₂	40.9 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	11.6 mm
d _a - min.	25.6 mm
d _a - max.	28.5 mm
d _b - min.	25.6 mm
d _b - max.	28.5 mm
D _a - max.	41.4 mm
D _b - max.	44.6 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	11.9 kN
Basic static load rating - C ₀	5.8 kN
Fatigue load limit - P _u	0.245 kN



KRS Guide Wheel Bearing Co., Ltd

Limiting speed for grease lubrication	36000 r/min
Ball - D_w	7.938 mm
Ball - z	11
Calculation factor - f_0	8.7
Preload class A - G_A	45 N
Preload class B - G_B	90 N
Preload class C - G_C	180 N
Preload class D - G_D	360 N
Calculation factor - f	1.03
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	25 N/micron
Preload class B	33 N/micron
Preload class C	45 N/micron
Preload class D	63 N/micron
d_1	29.1 mm
d_2	29.1 mm
D_2	40.9 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	25.6 mm
d_a max.	28.5 mm
d_b min.	25.6 mm
d_b max.	28.5 mm
D_a max.	41.4 mm
D_b max.	44.6 mm



KRS Guide Wheel Bearing Co., Ltd

r_a max.	1 mm
r_b max.	0.3 mm
Basic dynamic load rating C	11.9 kN
Basic static load rating C_0	5.85 kN
Fatigue load limit P_u	0.245 kN
Attainable speed for grease lubrication	36000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	11
Preload class A G_A	45 N
Static axial stiffness, preload class A	25 N/ μ m
Preload class B G_B	90 N
Static axial stiffness, preload class B	33 N/ μ m
Preload class C G_C	180 N
Static axial stiffness, preload class C	45 N/ μ m
Preload class D G_D	360 N
Static axial stiffness, preload class D	63 N/ μ m
Calculation factor f	1.03
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	8.7
Mass bearing	0.11 kg