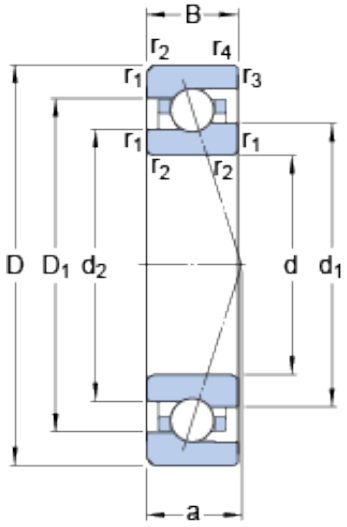
Loyal | 7002 CE/HCP4A



Bearing No. 7002 CE/HCP4A

D	32 mm
d	15 mm
B	9 mm
a	7.7 mm
Ball - z	12
Size (mm)	32x15x9
Width (mm)	9
Mass bearing	0.025 kg
d_n	21.9 mm
d_n	21.9 mm
D_1	26.9 mm
d_1	20.65 mm
d_2	19.5 mm
D_1	26.9 mm
d_2	19.5 mm
d_1	20.65 mm
Bearing number	7002 CE/HCP4A
Preload class A	18 N/micron
Preload class B	27 N/micron
Preload class C	37 N/micron
G_{ref}	0.5 cm3
Number of balls z	12
D_a max.	30 mm
d_a min.	17 mm
d_b min.	17 mm
D_b max.	30.6 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
Bore Diameter (mm)	32

Outer Diameter (mm)	15
d_a - min.	17 mm
r_a - max.	0.3 mm
$r_{1,2}$ min.	0.3 mm
Calculation factor f	1.03
D_b - max.	30.6 mm
$r_{3,4}$ min.	0.15 mm
r_b - max.	0.15 mm
D_a - max.	30 mm
Ball - D_w	4.762 mm
d_b - min.	17 mm
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.15 mm
$r_{1,2}$ - min.	0.3 mm
Basic dynamic load rating C	4.42 kN
Ball diameter D_w	4.762 mm
Preload class B G_B	70 N
Preload class A G_A	25 N
Basic dynamic load rating - C	4.4 kN
Preload class C G_C	140 N
Preload class A - G_A	25 N
Preload class C - G_C	140 N
Preload class B - G_B	70 N
Calculation factor f_1	1
Fatigue load limit P_u	0.08 kN
Calculation factor f_0	7.3
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01

Calculation factor - f	1
Fatigue load limit - P_u	0.08 kN
Calculation factor - f_0	7.3
Limiting speed for oil lubrication	127000 mm/min
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Limiting speed for grease lubrication	83000 r/min
Basic static load rating C_0	1.93 kN
Static axial stiffness, preload class A	18 N/µm
Static axial stiffness, preload class B	27 N/µm
Static axial stiffness, preload class C	37 N/µm
Attainable speed for grease lubrication	83000 r/min
Attainable speed for oil-air lubrication	127000 r/min
Basic static load rating - C_0	1.9 kN
Reference grease quantity G_{ref}	0.5 cm³