



6312 NR

- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

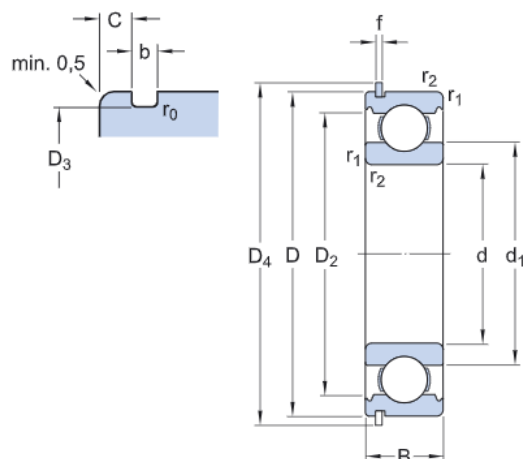
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

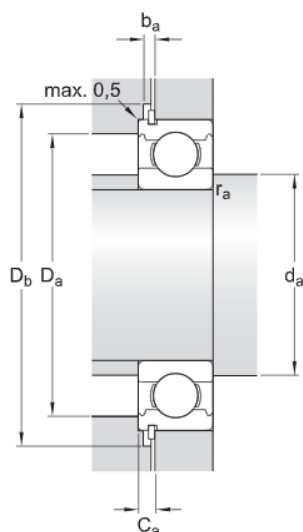


DIMENSIONS

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
d ₁	≈ 81.86 mm	Shoulder diameter
D ₂	≈ 112.2 mm	Recess diameter
D ₃	125.22 mm	Diameter of snap ring groove
D ₄	139.7 mm	Outside diameter of snap ring
b	3.1 mm	Width of snap ring groove
C	4.06 mm	Distance outer ring from side face to snap ring groove
f	2.82 mm	Width of snap ring
r ₀	max. 0.6 mm	Bottom radius of snap ring groove
r _{1,2}	min. 2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 72 mm	Diameter of shaft abutment
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D_a	max. 118 mm	Diameter of housing abutment
D_b	min. 141 mm	Diameter of snap ring recess in the housing
b_a	min. 3.5 mm	Width of snap ring recess in the housing
C_a	max. 6.88 mm	Distance from outer ring side face to snap ring back face
r_a	max. 2 mm	Radius of shaft or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	85.2 kN
Basic static load rating	C_0	52 kN
Fatigue load limit	P_u	2.2 kN
Reference speed		11 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_T	0.03
Calculation factor	f_0	13.1

MASS

Mass bearing	1.76 kg
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INCLUDED PRODUCTS

Snap ring	SP 130
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TOLERANCE CLASS

Dimensional tolerances	P6
Radial run-out	Normal

More information

Product details	Engineering information	Tools
Single row deep groove ball bearings	Principles of rolling bearing selection	Bearing Select
Stainless steel deep groove ball bearings	General bearing knowledge	SimPro Quick
Single row deep groove ball bearings with filling slots	Bearing selection process	Engineering Calculator
Double row deep groove ball bearings	Bearing interfaces	LubeSelect for SKF greases
Bearing data	Seat tolerances for standard conditions	Heater selection tool
Loads	Selecting internal clearance	Rolling bearings mounting and dismounting instructions
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	

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