



6010 N Deep groove ball bearings

- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

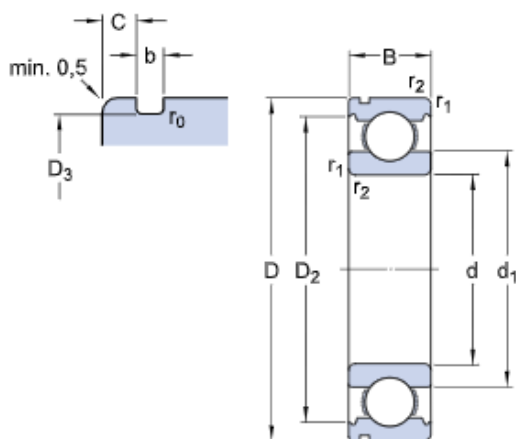
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

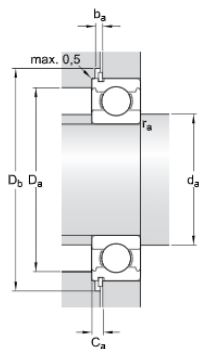


DIMENSIONS

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
d ₁	≈ 59.75 mm	Shoulder diameter
D ₂	≈ 72.8 mm	Recess diameter
D ₃	76.81 mm	Diameter of snap ring groove
b	1.9 mm	Width of snap ring groove
C	2.49 mm	Distance outer ring from side face to snap ring groove
r ₀	max. 0.6 mm	Bottom radius of snap ring groove
r _{1,2}	min. 1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 54.6 mm	Diameter of shaft abutment
D _a	max. 75.4 mm	Diameter of housing abutment
Db	min. 88 mm	Diameter of snap ring recess in the housing
ba	min. 2.2 mm	Width of snap ring recess in the housing



C_a	max. 4.19 mm	Distance from outer ring side face to snap ring back face
r_a	max. 1 mm	Radius of shaft or housing fillet

CALCULATION DATA

C	22.9 kN	Basic dynamic load rating
C_0	16 kN	Basic static load rating
P_u	0.71 kN	Fatigue load limit
	18 000 r/min	Reference speed
	11 000 r/min	Limiting speed
k_r	0.025	Minimum load factor
f_0	15	Calculation factor

MASS

	0.26 kg	Mass bearing
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TOLERANCE CLASS

P6	Dimensional tolerances
P6	Radial run-out