



6005 NR 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

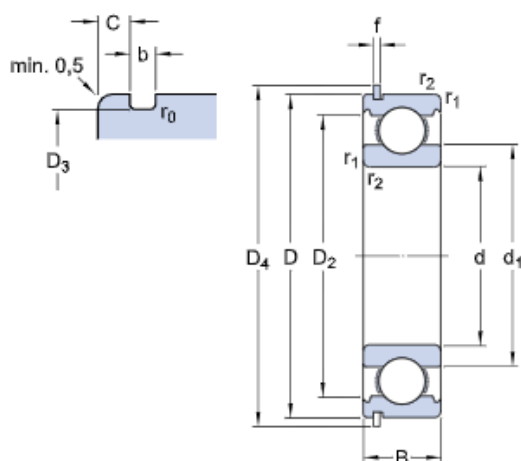
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

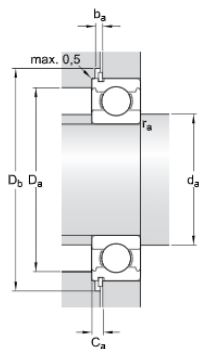


DIMENSIONS

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
d ₁	≈ 32 mm	Shoulder diameter
D ₂	≈ 42.2 mm	Recess diameter
D ₃	44.6 mm	Diameter of snap ring groove
D ₄	52.7 mm	Outside diameter of snap ring
b	1.35 mm	Width of snap ring groove
C	2.06 mm	Distance outer ring from side face to snap ring groove
f	1.12 mm	Width of snap ring
r ₀	max. 0.4 mm	Bottom radius of snap ring groove
r _{1,2}	min. 0.6 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 28.2 mm	Diameter of shaft abutment
D _a	max. 43.8 mm	Diameter of housing abutment
D _b	min. 54 mm	Diameter of snap ring recess in the housing



b_a	min. 1.5 mm	Width of snap ring recess in the housing
C_a	max. 3.18 mm	Distance from outer ring side face to snap ring back face
r_a	max. 0.6 mm	Radius of shaft or housing fillet

CALCULATION DATA

C	11.9 kN	Basic dynamic load rating
C_0	6.55 kN	Basic static load rating
P_u	0.275 kN	Fatigue load limit
	32 000 r/min	Reference speed
	20 000 r/min	Limiting speed
k_r	0.025	Minimum load factor
f_0	14	Calculation factor

MASS

0.08 kg	Mass bearing
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INCLUDED PRODUCTS

SP 47	Snap ring
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TOLERANCE CLASS

P6	Dimensional tolerances
P5	Radial run-out