



6303-2ZNR 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

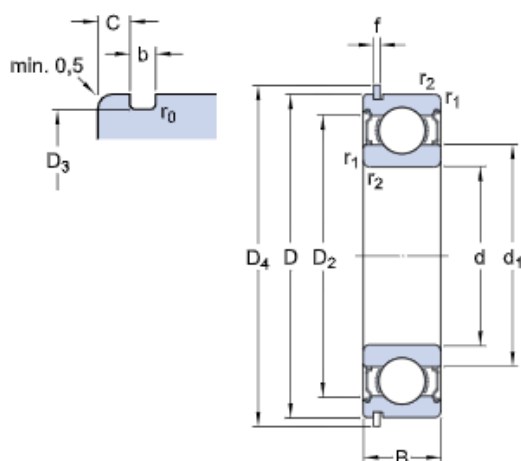
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

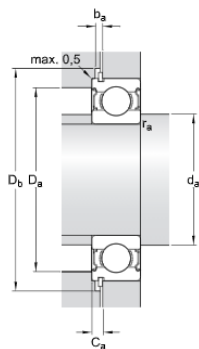


DIMENSIONS

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d ₁	≈ 26.52 mm	Shoulder diameter
D ₂	≈ 39.58 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	2.46 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. 1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 22.6 mm	Diameter of shaft abutment
d _a	max. 26.4 mm	Diameter of shaft abutment
D _a	max. 41.4 mm	Diameter of housing abutment



Db	min. 54 mm	Diameter of snap ring recess in the housing
ba	min. 1.5 mm	Width of snap ring recess in the housing
Ca	max. 3.58 mm	Distance from outer ring side face to snap ring back face
ra	max. 1 mm	Radius of shaft or housing fillet

CALCULATION DATA

C	14.3 kN	Basic dynamic load rating
C ₀	6.55 kN	Basic static load rating
P _u	0.275 kN	Fatigue load limit
	34 000 r/min	Reference speed
	17 000 r/min	Limiting speed
k _r	0.03	Minimum load factor
f ₀	12	Calculation factor

MASS

0.12 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