

31307

- Popular item

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

Normal and CL7C, CLN, Normal and CL, deviating width

Bearing interfaces

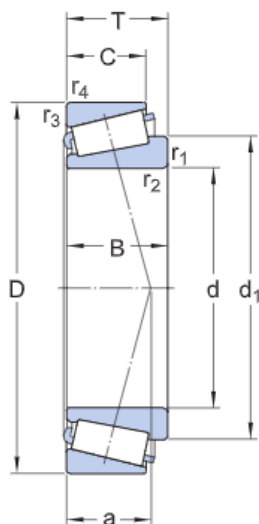
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

7FB

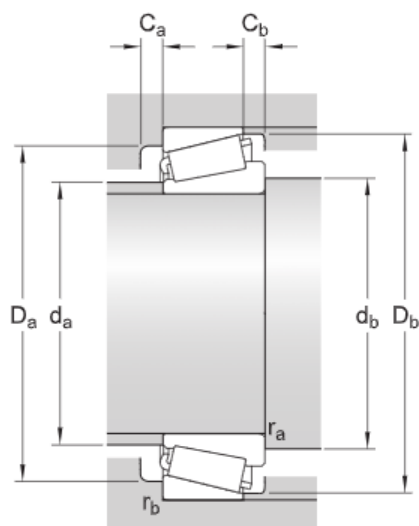


DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
T	22.75 mm	Total width
d ₁	≈ 59.6 mm	Shoulder diameter of inner ring
B	21 mm	Width of inner ring
C	15 mm	Width of outer ring
r _{1,2}	min. 2 mm	Chamfer dimension of inner ring
r _{3,4}	min. 1.5 mm	Chamfer dimension of outer ring
a	24.95 mm	Distance side face to pressure point

ABUTMENT DIMENSIONS

d max. 45 mm	Diameter of shaft abutment
d min. 44.5 mm	Diameter of shaft abutment
C min. 62	Diameter of housing abutment



mm	
C max. 72.5 mm	Diameter of housing abutment
C min. 76 mm	Diameter of housing abutment
C min. 3 mm	Minimum width of space required in housing on large side face
C min. 7.5 mm	Minimum width of space required in housing on small side face
r _i max. 2 mm	Radius of shaft fillet
r _l max. 1.5 mm	Radius of housing fillet

CALCULATION DATA

Basic dynamic load rating	C	75.4 kN
Basic static load rating	C ₀	67 kN
Fatigue load limit	P _u	7.8 kN
Reference speed		6 300 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.83
Axial load factor	Y	0.72
Axial load factor	Y ₀	0.4

MASS

Mass	0.52 kg
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More information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
Bearing data	General bearing knowledge	Bearing Select
Loads	Bearing selection process	Engineering Calculator
Temperature limits	Bearing failure and how to prevent it	LubeSelect for SKF greases
Permissible speed		Heater Selection Tool
Design considerations		Oil Injection Method Program
Bearing designations		skf.com/mount
Designation system		

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