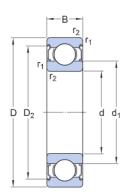
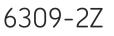
# **5KF**•



# Technical specification





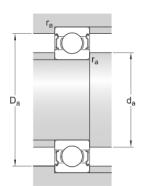
- Popular item - SKF Explorer

# Deep groove ball bearings

Bearing data Tolerances, Normal (metric), P6, P5, Normal (inch), Radial internal clearance, Classes C2 to C5 Bearing interfaces Seat tolerances for standard conditions, Tolerances and resultant fits

#### DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
В	25 mm	Width
$d_1$	≈ 62.18 mm	Shoulder diameter
$D_2$	≈ 86.7 mm	Recess diameter
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension



#### ABUTMENT DIMENSIONS

d <sub>e</sub> min. 54 mm	Diameter of shaft abutment
d <sub>e</sub> max. 62.1 mm	Diameter of shaft abutment
D <sub>max</sub> . 91 mm	Diameter of housing abutment
r <sub>a</sub> max. 1.5 mm	Radius of shaft or housing fillet



### CALCULATION DATA

Basic dynamic load rating		55.3 kN
Basic static load rating	C <sub>0</sub>	31.5 kN
Fatigue load limit	Pu	1.34 kN
Reference speed		15 000 r/min
Limiting speed		7 500 r/min
Minimum load factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	13

#### MASS

Mass bearing	0.87 kg
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# TOLERANCE CLASS

Dimensional tolerances	P6
Radial run-out	P6



#### More information

#### Product details

Single row deep groove ball bearings

Stainless steel deep groove ball bearings

Single row deep groove ball bearings with filling slots

Double row deep groove ball bearings

Bearing data

Loads

Temperature limits

Permissible speed

Designation system

#### Engineering information

Principles of rolling bearing selection

General bearing knowledge

Bearing selection process

Bearing interfaces

Seat tolerances for standard conditions

Selecting internal clearance

Lubrication

Sealing, mounting and dismounting

Bearing failure and how to prevent it

Tools

Bearing Select

SimPro Quick

Engineering Calculator

LubeSelect for SKF greases

Heater selection tool

Rolling bearings mounting and dismounting instructions



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