



# 61809 Deep groove ball bearings

Popular item

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

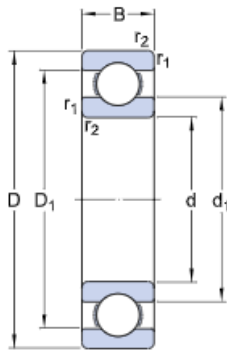
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

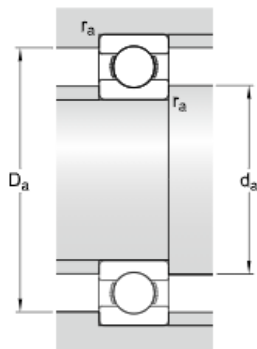
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

$d$	45 mm
$D$	58 mm
$B$	7 mm
$d_1$	≈ 48.2 mm
$D_1$	≈ 53.92 mm
$r_{1,2}$	min. 0.3 mm



### ABUTMENT DIMENSIONS

$d_a$	min. 47 mm
$D_a$	max. 56 mm
$r_a$	max. 0.3 mm

## CALCULATION DATA

Basic dynamic load rating	C	6.63 kN
Basic static load rating	$C_0$	6.1 kN
Fatigue load limit	$P_u$	0.26 kN
Reference speed		22 000 r/min
Limiting speed		14 000 r/min
Calculation factor	$k_r$	0.015
Calculation factor	$f_0$	17

## MASS

Mass bearing		0.04 kg
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## More information

Product details	Engineering information	Tools
<a href="#">Single row deep groove ball bearings</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Bearing Select</a>
<a href="#">Stainless steel deep groove ball bearings</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Single row deep groove ball bearings with filling slots</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>
<a href="#">Double row deep groove ball bearings</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Bearing data</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Loads</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
<a href="#">Temperature limits</a>	<a href="#">Lubrication</a>	
<a href="#">Permissible speed</a>	<a href="#">Sealing, mounting and dismounting</a>	
<a href="#">Designation system</a>	<a href="#">Bearing failure and how to prevent it</a>	

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