



# 627-Z

SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

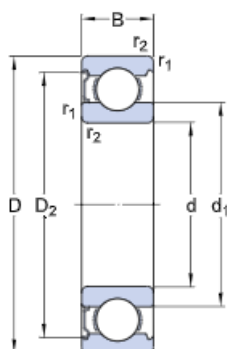
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

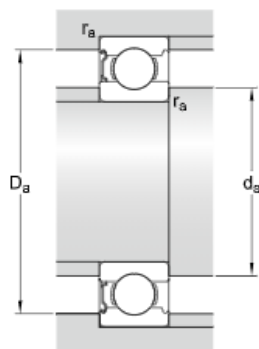
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

d	7 mm
D	22 mm
B	7 mm
d <sub>1</sub>	≈ 12.15 mm
D <sub>2</sub>	≈ 19.2 mm
r <sub>1,2</sub>	min. 0.3 mm



### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 9.4 mm
d <sub>a</sub>	max. 12.1 mm
D <sub>a</sub>	max. 19.6 mm
r <sub>a</sub>	max. 0.3 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	3.45 kN
Basic static load rating	$C_0$	1.37 kN
Fatigue load limit	$P_u$	0.057 kN
Reference speed		70 000 r/min
Limiting speed		45 000 r/min
Calculation factor	$k_r$	0.025
Calculation factor	$f_0$	12

## MASS

Mass bearing	0.013 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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