



W 627

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

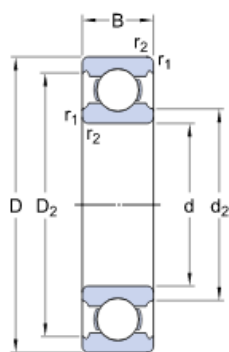
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

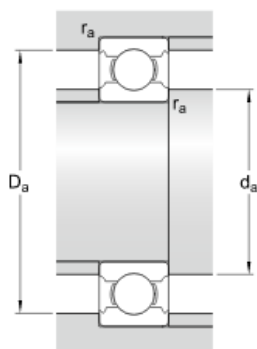
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	7 mm
D	22 mm
B	7 mm
d_2	≈ 10.5 mm
D_2	≈ 19.03 mm
$r_{1,2}$	min. 0.3 mm



ABUTMENT DIMENSIONS

d_a	min. 9 mm
D_a	max. 20 mm
r_a	max. 0.3 mm

CALCULATION DATA

Basic dynamic load rating	C	1.99 kN
Basic static load rating	C ₀	0.78 kN
Fatigue load limit	P _u	0.034 kN
Reference speed		75000 r/min
Limiting speed		48000 r/min
Calculation factor	k _r	0.03
Calculation factor	f ₀	7.2

MASS

Mass bearing	0.012 kg
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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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