



618/7

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

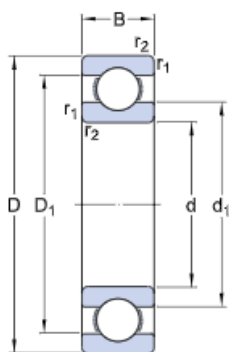
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

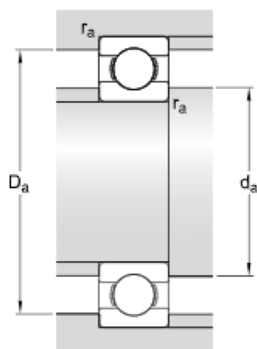
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	0.2756 in
D	0.5512 in
B	0.1378 in
d_1	≈ 0.3543 in
D_1	≈ 0.4724 in
$r_{1,2}$	min. 0.0059 in



ABUTMENT DIMENSIONS

d_a	min. 0.3071 in
D_a	max. 0.5197 in
r_a	max. 0.0039 in

CALCULATION DATA

Basic dynamic load rating	C	175 lbf
Basic static load rating	C_0	58 lbf
Fatigue load limit	P_u	2.5 lbf
Reference speed		100000 r/min
Limiting speed		63000 r/min
Calculation factor	k_r	0.015
Calculation factor	f_0	7.2

MASS

Mass bearing	0.0049 lbs
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More information

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

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