



W 638-2Z

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

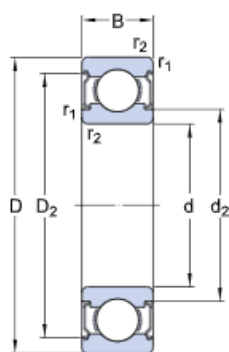
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

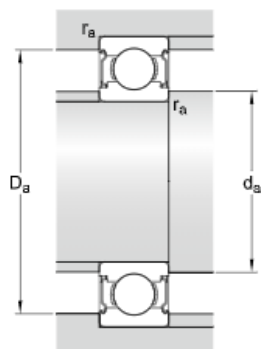
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	0.315 in
D	1.1024 in
B	0.3543 in
d_2	≈ 0.5472 in
D_2	≈ 0.8811 in
$r_{1,2}$	min. 0.0118 in



ABUTMENT DIMENSIONS

d_a	min. 0.3937 in
d_a	max. 0.5433 in
D_a	max. 1.0236 in
r_a	max. 0.0118 in

CALCULATION DATA

Basic dynamic load rating	C	892 lbf
Basic static load rating	C ₀	441 lbf
Fatigue load limit	P _u	19 lbf
Reference speed		67000 r/min
Limiting speed		32000 r/min
Calculation factor	k _r	0.035
Calculation factor	f ₀	12.4

MASS

Mass bearing	0.063 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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