



## W 638/2.5-2Z

Popular item

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

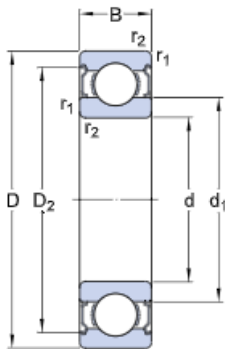
Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

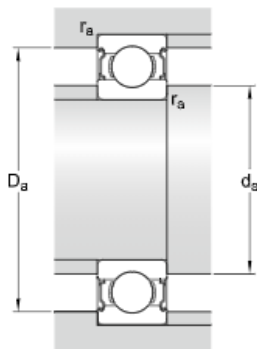
[Tolerances and resultant fits](#)

### Technical specification



#### DIMENSIONS

d	2.5 mm
D	6 mm
B	2.6 mm
d <sub>1</sub>	≈ 3.7 mm
d <sub>2</sub>	≈ 3.7 mm
D <sub>2</sub>	≈ 5.4 mm
r <sub>1,2</sub>	min. 0.08 mm



#### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 3.1 mm
d <sub>a</sub>	max. 3.6 mm
D <sub>a</sub>	max. 5.5 mm
r <sub>a</sub>	max. 0.08 mm

## CALCULATION DATA

Basic dynamic load rating	C	0.117 kN
Basic static load rating	$C_0$	0.036 kN
Fatigue load limit	$P_u$	0.002 kN
Reference speed		170 000 r/min
Limiting speed		85 000 r/min
Calculation factor	$k_f$	0.02
Calculation factor	$f_0$	7.1

## MASS

Mass bearing		0 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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