



Image may differ from product. See technical specification for details.

## 608-2RSLTN9/HC5C3WTF1

**Hybrid ceramic deep groove ball bearing with low-friction seals on both sides**

Hybrid ceramic single row deep groove ball bearings with low-friction seals on both sides have rings made of bearing steel and rolling elements made of bearing grade silicon nitride, which make the bearings electrically insulating. The low-friction seals provide better sealing effectiveness than shields and non-contact seals, thus providing significantly

prolonged bearing service life, yet they can still operate at the same speeds as shields. The ceramic rolling elements not only provide protection from electric current damage but also, when compared to same-sized bearings with steel rolling elements, provide enhanced bearing performance, extended bearing service life, higher speed capability, high wear-resistance, high bearing stiffness, reduced risk of smearing and false brinelling and less sensitivity to temperature gradients, making them suitable for use in difficult conditions and contaminated environments.

- Protected against electric current damage
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

|                  |       |
|------------------|-------|
| Bore diameter    | 8 mm  |
| Outside diameter | 22 mm |
| Width            | 7 mm  |

Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 3.25 kN      |
| Basic static load rating  | 1.37 kN      |
| Reference speed           | 85 000 r/min |
| Limiting speed            | 38 000 r/min |

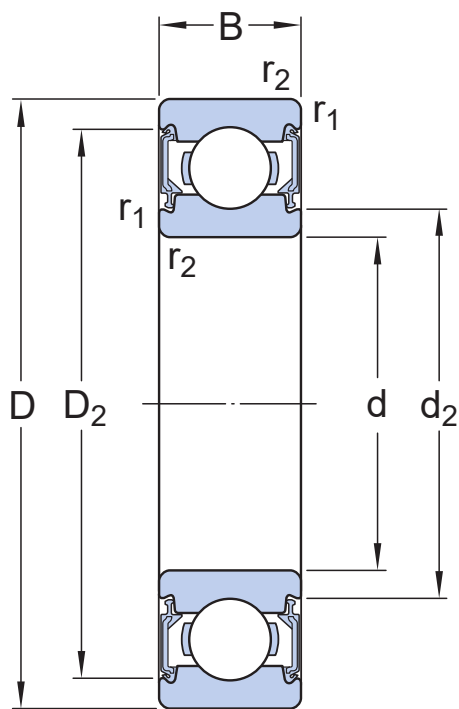
Properties

|                                      |                        |
|--------------------------------------|------------------------|
| Filling slots                        | Without                |
| Number of rows                       | 1                      |
| Locating feature, bearing outer ring | None                   |
| Bore type                            | Cylindrical            |
| Cage                                 | Non-metallic           |
| Matched arrangement                  | No                     |
| Radial internal clearance            | C3                     |
| Material, bearing                    | Hybrid (ceramic balls) |
| Coating                              | Without                |
| Sealing                              | Seal on both sides     |
| Sealing type                         | Low-friction           |
| Lubricant                            | Grease                 |
| Relubrication feature                | Without                |

Logistics

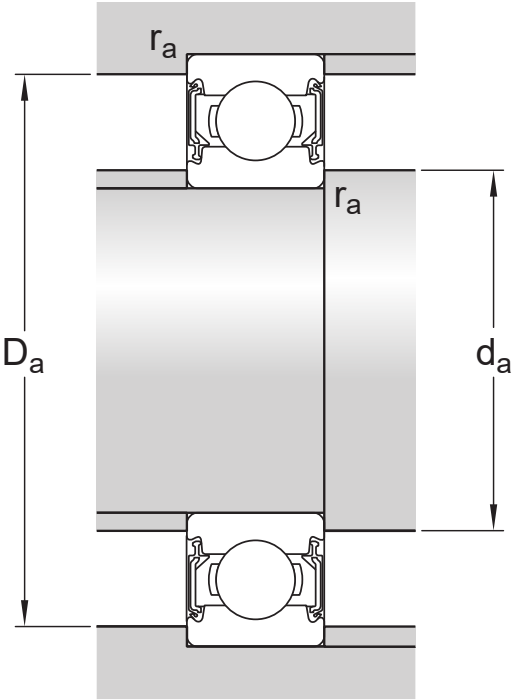
|                    |             |
|--------------------|-------------|
| Product net weight | 0.0101 kg   |
| eClass code        | 23-05-08-01 |
| UNSPSC code        | 31171504    |

Technical specification



Dimensions

|                  |             |                                     |
|------------------|-------------|-------------------------------------|
| d                | 8 mm        | Bore diameter                       |
| D                | 22 mm       | Outside diameter                    |
| B                | 7 mm        | Width                               |
| d <sub>2</sub>   | ≈ 10.6 mm   | Recess diameter inner ring shoulder |
| D <sub>2</sub>   | 19.2 mm     | Recess diameter outer ring shoulder |
| r <sub>1,2</sub> | min. 0.3 mm | Chamfer dimension                   |



Abutment dimensions

|       |              |                           |
|-------|--------------|---------------------------|
| $d_a$ | min. 10 mm   | Abutment diameter shaft   |
| $d_a$ | max. 10.5 mm | Abutment diameter shaft   |
| $D_a$ | max. 20 mm   | Abutment diameter housing |
| $r_a$ | max. 0.3 mm  | Fillet radius             |

Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C     | 3.25 kN      |
| Basic static load rating  | $C_0$ | 1.37 kN      |
| Fatigue load limit        | $P_u$ | 0.043 kN     |
| Reference speed           |       | 85 000 r/min |
| Limiting speed            |       | 38 000 r/min |
| Calculation factor        | $k_r$ | 0.025        |
| Calculation factor        | $f_0$ | 12.3         |

Tolerances and clearances

## GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

## BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fits](#)

More Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                  |
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| <div> <b>Product details</b></div> <div><a href="#">Single row deep groove ball bearings</a></div> <div><a href="#">Stainless steel deep groove ball bearings</a></div> <div><a href="#">Single row deep groove ball bearings with filling slots</a></div> <div><a href="#">Double row deep groove ball bearings</a></div> <div><a href="#">General bearing specifications</a></div> <div><a href="#">Loads</a></div> <div><a href="#">Temperature limits</a></div> <div><a href="#">Permissible speed</a></div> <div><a href="#">Designation system</a></div> | <div> <b>Engineering information</b></div> <div><a href="#">Principles of rolling bearing selection</a></div> <div><a href="#">General bearing knowledge</a></div> <div><a href="#">Bearing selection process</a></div> <div><a href="#">Bearing interfaces</a></div> <div><a href="#">Seat tolerances for standard conditions</a></div> <div><a href="#">Selecting internal clearance</a></div> <div><a href="#">Lubrication</a></div> <div><a href="#">Sealing, mounting and dismounting</a></div> <div><a href="#">Bearing failure and how to prevent it</a></div> | <div> <b>Tools</b></div> <div><a href="#">SKF Product select</a></div> <div><a href="#">SimPro Quick</a></div> <div><a href="#">Bearing Frequency Calculator</a></div> <div><a href="#">LubeSelect for SKF greases</a></div> <div><a href="#">Heater selection tool</a></div> |
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