



W 63800 R-2Z

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

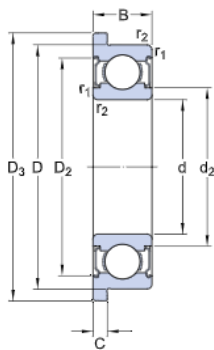
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

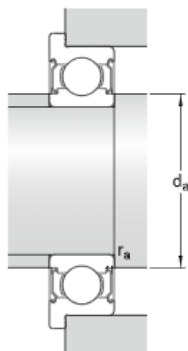


DIMENSIONS

| | |
|------------------|-------------|
| d | 10 mm |
| D | 19 mm |
| B | 7 mm |
| d ₂ | ≈ 11.8 mm |
| D ₂ | ≈ 17.15 mm |
| D ₃ | 21 mm |
| C | 1.5 mm |
| r _{1,2} | min. 0.3 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|--------------|
| d _a | min. 11.5 mm |
| d _a | max. 11.5 mm |
| r _a | max. 0.3 mm |



CALCULATION DATA

| | | |
|---------------------------|----------------|--------------|
| Basic dynamic load rating | C | 1.48 kN |
| Basic static load rating | C ₀ | 0.83 kN |
| Fatigue load limit | P _u | 0.036 kN |
| Reference speed | | 80 000 r/min |
| Limiting speed | | 38 000 r/min |
| Calculation factor | k _r | 0.02 |
| Calculation factor | f ₀ | 14.8 |

MASS

| | | |
|--------------|--|----------|
| Mass bearing | | 0.008 kg |
|--------------|--|----------|

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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