



WBB1-8708 R-2Z

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

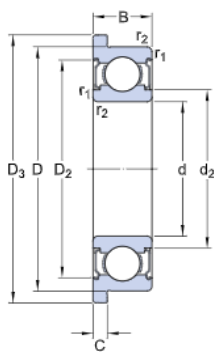
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

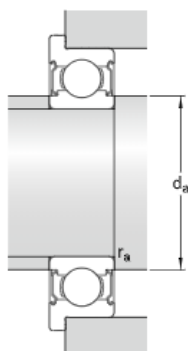


DIMENSIONS

| | |
|------------------|----------------|
| d | 0.315 in |
| D | 0.5512 in |
| B | 0.1575 in |
| d ₂ | ≈ 0.3646 in |
| D ₂ | ≈ 0.5032 in |
| D ₃ | 0.6142 in |
| C | 0.0315 in |
| r _{1,2} | min. 0.0059 in |

ABUTMENT DIMENSIONS

| | |
|----------------|----------------|
| d _a | min. 0.3504 in |
| d _a | max. 0.3622 in |
| r _a | max. 0.0059 in |



CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 104 lbf |
| Basic static load rating | C_0 | 43 lbf |
| Fatigue load limit | P_u | 1.8 lbf |
| Reference speed | | 95000 r/min |
| Limiting speed | | 48000 r/min |
| Calculation factor | k_r | 0.015 |
| Calculation factor | f_0 | 7.8 |

MASS

| | | |
|--------------|--|------------|
| Mass bearing | | 0.0049 lbs |
|--------------|--|------------|

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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