

628/9-Z

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

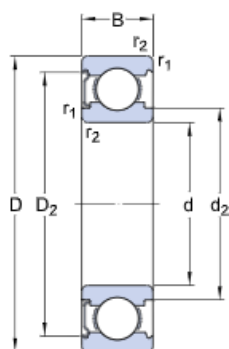
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

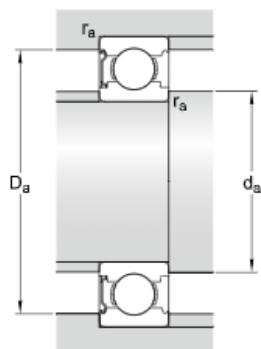
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

| | |
|------------------|----------------|
| d | 0.3543 in |
| D | 0.6693 in |
| B | 0.1969 in |
| d ₂ | ≈ 0.4213 in |
| D ₂ | ≈ 0.5984 in |
| r _{1,2} | min. 0.0079 in |



ABUTMENT DIMENSIONS

| | |
|----------------|----------------|
| d _a | min. 0.4094 in |
| d _a | max. 0.4134 in |
| D _a | max. 0.6142 in |
| r _a | max. 0.0079 in |

CALCULATION DATA

| | | |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C | 196 lbf |
| Basic static load rating | C ₀ | 76 lbf |
| Fatigue load limit | P _u | 3.1 lbf |
| Reference speed | | 85000 r/min |
| Limiting speed | | 53000 r/min |
| Calculation factor | k _r | 0.015 |
| Calculation factor | f ₀ | 7.7 |

MASS

| | |
|--------------|------------|
| Mass bearing | 0.0093 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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