



6012-2Z Deep groove ball bearings

- Popular item
- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

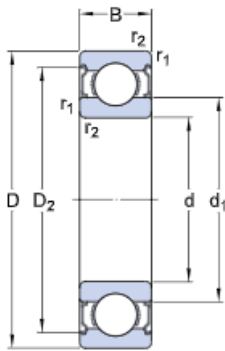
Matched bearing pairs, Stainless steel
 $d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

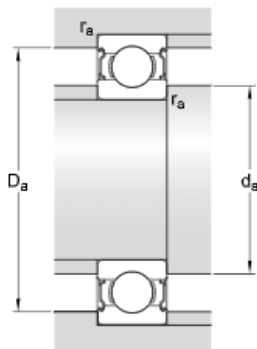


DIMENSIONS

| | | |
|-----------|-------------|-------------------|
| d | 60 mm | Bore diameter |
| D | 95 mm | Outside diameter |
| B | 18 mm | Width |
| d_1 | ≈ 71.3 mm | Shoulder diameter |
| D_2 | ≈ 86.5 mm | Recess diameter |
| $r_{1,2}$ | min. 1.1 mm | Chamfer dimension |

ABUTMENT DIMENSIONS

| | | |
|------------|---------|-----------------------------------|
| d_c min. | 66 mm | Diameter of shaft abutment |
| d_c max. | 71.2 mm | Diameter of shaft abutment |
| D_i max. | 89 mm | Diameter of housing abutment |
| r_a max. | 1 mm | Radius of shaft or housing fillet |



CALCULATION DATA

| | | |
|----------------|--------------|---------------------------|
| C | 30.7 kN | Basic dynamic load rating |
| C ₀ | 23.2 kN | Basic static load rating |
| P _u | 0.98 kN | Fatigue load limit |
| | 15 000 r/min | Reference speed |
| | 7 500 r/min | Limiting speed |
| k _r | 0.025 | Minimum load factor |
| f ₀ | 15.6 | Calculation factor |

MASS

| | | |
|--|---------|--------------|
| | 0.43 kg | Mass bearing |
|--|---------|--------------|

TOLERANCE CLASS

| | | |
|----|--|------------------------|
| P6 | | Dimensional tolerances |
| P6 | | Radial run-out |

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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