



6209

- Popular item
- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

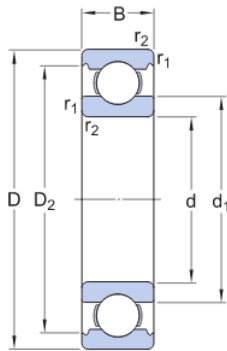
Classes C2 to C5

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

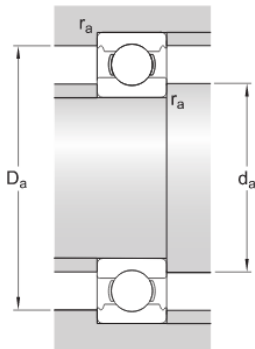


DIMENSIONS

| | | |
|------------------|-------------|-------------------|
| d | 45 mm | Bore diameter |
| D | 85 mm | Outside diameter |
| B | 19 mm | Width |
| d ₁ | ≈ 57.6 mm | Shoulder diameter |
| D ₂ | ≈ 75.19 mm | Recess diameter |
| r _{1,2} | min. 1.1 mm | Chamfer dimension |

ABUTMENT DIMENSIONS

| | | |
|----------------|-----------|-----------------------------------|
| d _a | min.52 mm | Diameter of shaft abutment |
| D _a | max.78 mm | Diameter of housing abutment |
| r _a | max.1 mm | Radius of shaft or housing fillet |



CALCULATION DATA

| | | |
|---------------------------|----------------|--------------|
| Basic dynamic load rating | C | 35.1 kN |
| Basic static load rating | C ₀ | 21.6 kN |
| Fatigue load limit | P _u | 0.915 kN |
| Reference speed | | 17 000 r/min |
| Limiting speed | | 11 000 r/min |
| Minimum load factor | k _r | 0.025 |
| Calculation factor | f ₀ | 14.2 |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.42 kg |
|--------------|---------|

TOLERANCE CLASS

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

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