



6009 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

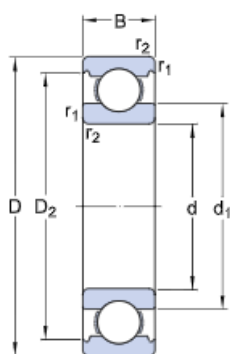
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

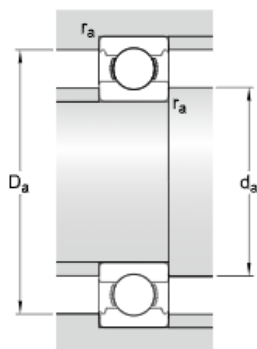


DIMENSIONS

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
d_1	≈ 54.75 mm	Shoulder diameter
D_2	≈ 67.8 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_c min. 50.8 mm	Diameter of shaft abutment
D_i max. 69.2 mm	Diameter of housing abutment
r_a max. 1 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	22.1 kN	Basic dynamic load rating
C ₀	14.6 kN	Basic static load rating
P _u	0.64 kN	Fatigue load limit
	20 000 r/min	Reference speed
	12 000 r/min	Limiting speed
k _r	0.025	Minimum load factor
f ₀	14.9	Calculation factor

MASS

0.24 kg	Mass bearing
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TOLERANCE CLASS

P6	Dimensional tolerances
P6	Radial run-out