



61809 Deep groove ball bearings

- Popular item

Deep groove ball bearings

Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

Matched bearing pairs, Stainless steel

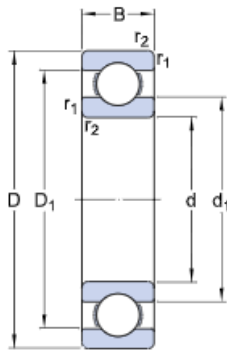
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

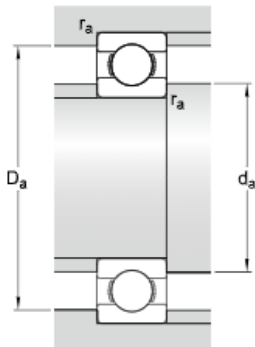


DIMENSIONS

d	45 mm	Bore diameter
D	58 mm	Outside diameter
B	7 mm	Width
d_1	≈ 48.2 mm	Shoulder diameter
D_1	≈ 53.92 mm	Shoulder diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_c min.	47 mm	Diameter of shaft abutment
D_i max.	56 mm	Diameter of housing abutment
r_a max.	0.3 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	6.63 kN	Basic dynamic load rating
C ₀	6.1 kN	Basic static load rating
P _u	0.26 kN	Fatigue load limit
	22 000 r/min	Reference speed
	14 000 r/min	Limiting speed
k _r	0.015	Minimum load factor
f ₀	17	Calculation factor

MASS

	0.04 kg	Mass bearing
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TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out