



61809-2RS1 Deep groove ball bearings

- Popular item

Deep groove ball bearings

Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

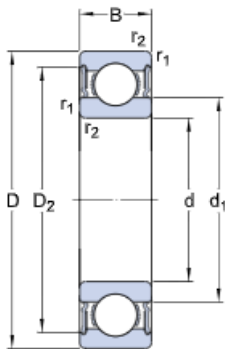
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

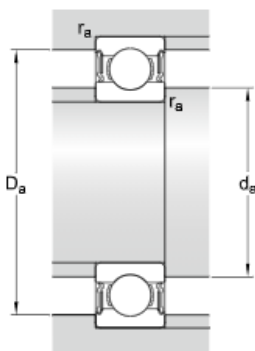


DIMENSIONS

d	45 mm	Bore diameter
D	58 mm	Outside diameter
B	7 mm	Width
d ₁	≈ 48.2 mm	Shoulder diameter
D ₂	≈ 55.4 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _ε min.	47 mm	Diameter of shaft abutment
d _ε max.	49 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
	6 700 r/min	Limiting speed
k _r	0.015	Minimum load factor
f ₀	17	Calculation factor

MASS

	0.035 kg	Mass bearing
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TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out