



W 6002 Deep groove ball bearings

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

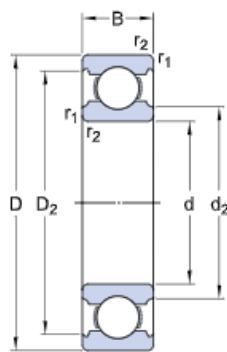
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

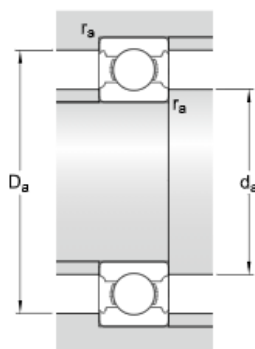


DIMENSIONS

d	15 mm	Bore diameter
D	32 mm	Outside diameter
B	9 mm	Width
d_2	≈ 18.6 mm	Recess diameter
D_2	≈ 29.05 mm	Recess diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_a	min. 17 mm	Diameter of shaft abutment
D_i	max. 30 mm	Diameter of housing abutment
r_a	max. 0.3 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	4.88 kN	Basic dynamic load rating
C ₀	2.8 kN	Basic static load rating
P _u	0.12 kN	Fatigue load limit
	50 000 r/min	Reference speed
	32 000 r/min	Limiting speed
k _r	0.03	Minimum load factor
f ₀	13.9	Calculation factor

MASS

0.027 kg	Mass bearing
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TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out