



6004 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

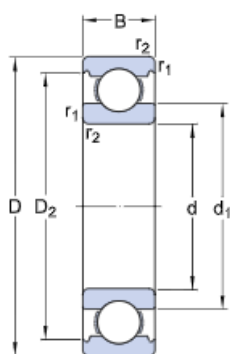
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

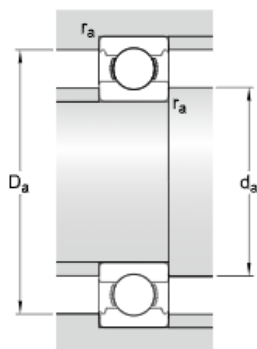


DIMENSIONS

d	20 mm	Bore diameter
D	42 mm	Outside diameter
B	12 mm	Width
d_1	≈ 27.2 mm	Shoulder diameter
D_2	≈ 37.19 mm	Recess diameter
$r_{1,2}$	min. 0.6 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_c min. 23.2 mm	Diameter of shaft abutment
D_i max. 38.8 mm	Diameter of housing abutment
r_a max. 0.6 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	9.95 kN	Basic dynamic load rating
C ₀	5 kN	Basic static load rating
P _u	0.212 kN	Fatigue load limit
	38 000 r/min	Reference speed
	24 000 r/min	Limiting speed
k _r	0.025	Minimum load factor
f ₀	14	Calculation factor

MASS

0.067 kg	Mass bearing
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TOLERANCE CLASS

P6	Dimensional tolerances
P5	Radial run-out