



W 6005 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

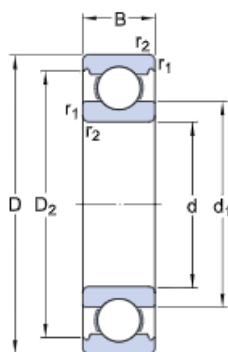
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

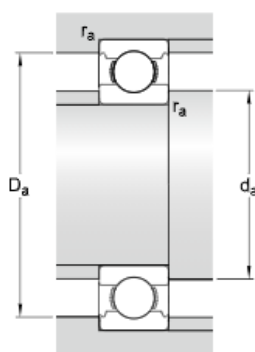


DIMENSIONS

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
d_1	≈ 31.7 mm	Shoulder diameter
D_2	≈ 42.73 mm	Recess diameter
$r_{1,2}$	min. 0.6 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_c min. 29 mm	Diameter of shaft abutment
D_i max. 44.5 mm	Diameter of housing abutment
r_a max. 0.6 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	8.71 kN	Basic dynamic load rating
C ₀	5.85 kN	Basic static load rating
P _u	0.25 kN	Fatigue load limit
	32 000 r/min	Reference speed
	20 000 r/min	Limiting speed
k _r	0.03	Minimum load factor
f ₀	14.5	Calculation factor

MASS

0.071 kg	Mass bearing
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TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out