



W 61807-2Z 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

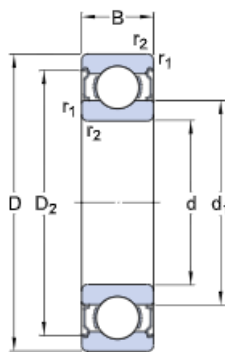
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

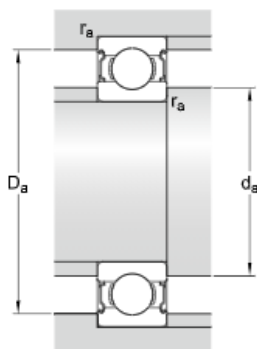


DIMENSIONS

d	35 mm	Bore diameter
D	47 mm	Outside diameter
B	7 mm	Width
d_1	≈ 38.21 mm	Shoulder diameter
d_2	≈ 38.21 mm	Recess diameter
D_2	≈ 43.69 mm	Recess diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_{ε} min. 37 mm	Diameter of shaft abutment
d_{ε} max. 38 mm	Diameter of shaft abutment
D_i max. 45 mm	Diameter of housing abutment
r_a max. 0.3 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	3.71 kN	Basic dynamic load rating
C ₀	3.35 kN	Basic static load rating
P _u	0.14 kN	Fatigue load limit
	30 000 r/min	Reference speed
	15 000 r/min	Limiting speed
k _r	0.02	Minimum load factor
f ₀	14.3	Calculation factor

MASS

0.028 kg	Mass bearing
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TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out