



6005-Z Deep groove ball bearings

- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

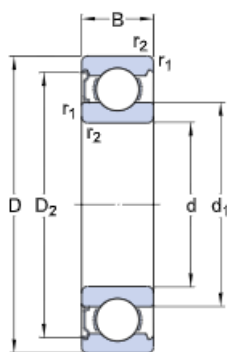
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

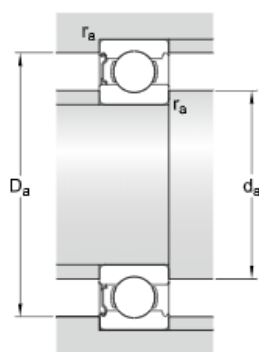


DIMENSIONS

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
d ₁	≈ 32 mm	Shoulder diameter
D ₂	≈ 42.2 mm	Recess diameter
r _{1,2}	min. 0.6 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _ε min. 28.2 mm	Diameter of shaft abutment
d _ε max. 31.9 mm	Diameter of shaft abutment
D _i max. 43.8 mm	Diameter of housing abutment
r _a max. 0.6 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	11.9 kN	Basic dynamic load rating
C ₀	6.55 kN	Basic static load rating
P _u	0.275 kN	Fatigue load limit
	32 000 r/min	Reference speed
	20 000 r/min	Limiting speed
k _r	0.025	Minimum load factor
f ₀	14	Calculation factor

MASS

0.08 kg	Mass bearing
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TOLERANCE CLASS

P6	Dimensional tolerances
P5	Radial run-out