

61800

Deep groove ball bearings

Bearing data

Tolerances,

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

Radial internal clearance,

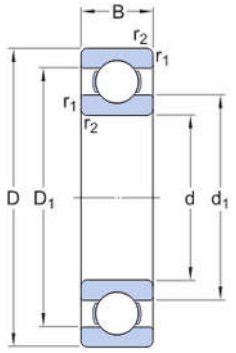
Classes C2 to C5

Bearing interfaces

Seat tolerances for standard conditions,

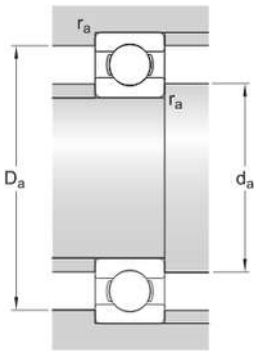
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	10 mm	Bore diameter
D	19 mm	Outside diameter
B	5 mm	Width
d_1	≈ 12.74 mm	Shoulder diameter
D_1	≈ 16.26 mm	Shoulder diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension



ABUTMENT DIMENSIONS

da	min.12 mm	Diameter of shaft abutment
Da	max.17 mm	Diameter of housing abutment
ra	max.0.3 mm	Radius of shaft or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	1.72 kN
Basic static load rating	C_0	0.83 kN
Fatigue load limit	P_u	0.036 kN
Reference speed		80 000 r/min
Limiting speed		48 000 r/min
Minimum load factor	k_r	0.015
Calculation factor	f_0	14.8

MASS

Mass bearing	0.005 kg

TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

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