



31314 Tapered roller bearings, single row

- SKF Explorer

Tapered roller bearings, single row

Technical specification

7GB



DIMENSIONS

d	70 mm	Bore diameter
D	150 mm	Outside diameter
T	38 mm	Total bearing width
d_1	≈ 111 mm	Inner ring shoulder diameter
B	35 mm	Width inner ring
C	25 mm	Width outer ring
$r_{1,2}$	min. 3 mm	Corner radius inner ring
$r_{3,4}$	min. 2.5 mm	Corner radius outer ring
a	45.253 mm	Distance pressure point

ABUTMENT DIMENSIONS

d_a	max. 85 mm	Abutment diameter shaft
d_b	min. 83 mm	Abutment diameter shaft
D_a	min. 118 mm	Abutment diameter housing



D_a	max. 139 mm	Abutment diameter housing
D_b	min. 141 mm	Abutment diameter housing
C_a	min. 5 mm	Abutment housing - axial space at the large side face/ both sides of the outer ring
C_b	min. 13 mm	Abutment housing - axial space at the small side face/ both sides of the outer ring
r_a	max. 3 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

CALCULATION DATA

C	229 kN	Basic dynamic load rating
C_0	220 kN	Basic static load rating
P_u	27 kN	Fatigue load limit
	3400 r/min	Reference speed
	4500 r/min	Limiting speed
e	0.83	Calculation factor
Y	0.72	Calculation factor
Y_0	0.4	Calculation factor

MASS

	2.87 kg	Mass bearing
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