



## 31307 Tapered roller bearings, single row

- Popular item  
- SKF Explorer

### Tapered roller bearings, single row

## Technical specification

7FB

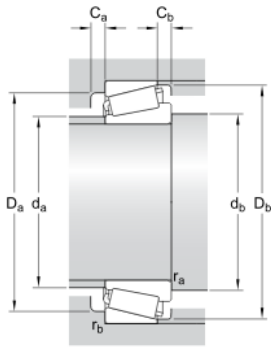


### DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
T	22.75 mm	Total bearing width
$d_1$	≈ 59.6 mm	Inner ring shoulder diameter
B	21 mm	Width inner ring
C	15 mm	Width outer ring
$r_{1,2}$	min. 2 mm	Corner radius inner ring
$r_{3,4}$	min. 1.5 mm	Corner radius outer ring
a	24.916 mm	Distance pressure point

### ABUTMENT DIMENSIONS

$d_a$	max. 45 mm	Abutment diameter shaft
$d_b$	min. 44.5 mm	Abutment diameter shaft
$D_a$	min. 62 mm	Abutment diameter housing



$D_a$	max. 72.5 mm	Abutment diameter housing
$D_b$	min. 76 mm	Abutment diameter housing
$C_a$	min. 3 mm	Abutment housing - axial space at the large side face/ both sides of the outer ring
$C_b$	min. 7.5 mm	Abutment housing - axial space at the small side face/ both sides of the outer ring
$r_a$	max. 2 mm	Fillet radius
$r_b$	max. 1.5 mm	Fillet radius

CALCULATION DATA

C	75.4 kN	Basic dynamic load rating
$C_0$	67 kN	Basic static load rating
$P_u$	7.8 kN	Fatigue load limit
	6300 r/min	Reference speed
	8500 r/min	Limiting speed
e	0.83	Calculation factor
Y	0.72	Calculation factor
$Y_0$	0.4	Calculation factor

MASS

	0.52 kg	Mass bearing
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