Technical data

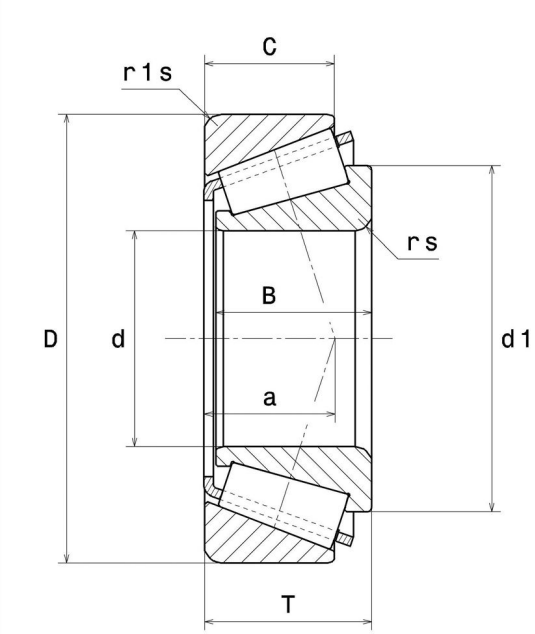
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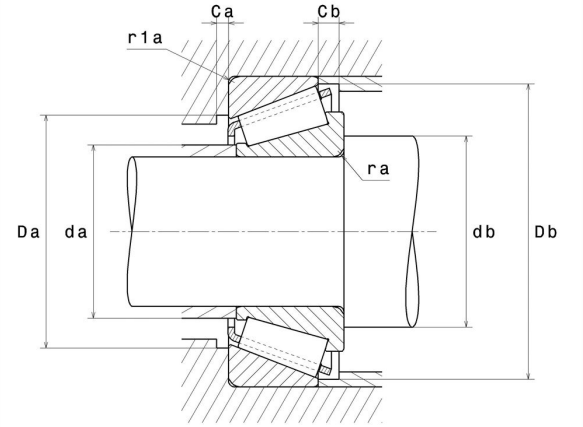
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	50 mm
D	82 mm
B	21.5 mm
C	17 mm
T	21.5 mm
d1	65.4 mm
a	15.6 mm
rs min	3 mm
r1s min	0.5 mm
e	0.31
Y2	1.97
Y0	1.08
Mass	0.42 kg
Brand	SNR

Product performance

Dynamic load, C	70.6 kN
Rating life coefficient, A2	1
Static load, C0	95.6 kN
Fatigue limit load, Cu	11.7 kN
Nref	4,400 Tr/min
Nlim	8,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.04 Hz
Characteristic outer ring frequency, BPF0	9.24 Hz
Characteristic inner ring frequency, BPFI	11.76 Hz

Abutment dimensions

db min	64 mm
Da max	77.5 mm
ra max	2.5 mm
r1a max	0.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

The values for e, Y2 and Y0 are shown in the above table