Technical data

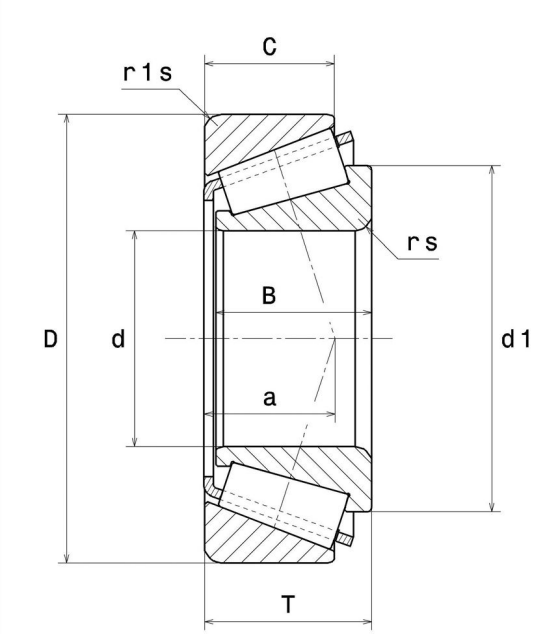
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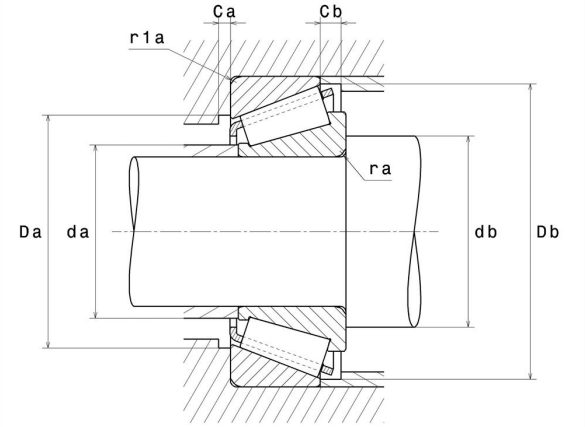
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	35 mm
D	80 mm
B	21 mm
C	15 mm
T	22.75 mm
d1	59.1 mm
a	25.8 mm
rs min	2 mm
r1s min	1.5 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	0.52 kg
ISO 355 reference	T7FB035
Brand	SNR

Product performance

Dynamic load, C	69.1 kN
Rating life coefficient, A2	1
Static load, C0	77.2 kN
Fatigue limit load, Cu	9.4 kN
Nref	5,500 Tr/min
Nlim	9,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.32 Hz
Characteristic outer ring frequency, BPF0	6.72 Hz
Characteristic inner ring frequency, BPFI	9.28 Hz

Abutment dimensions

da max	44 mm
db min	45 mm
Da min	62 mm
Da max	71.5 mm
Db min	76.5 mm
Ca min	3 mm
Cb min	7.5 mm
ra max	2 mm
r1a max	1.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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