Technical data

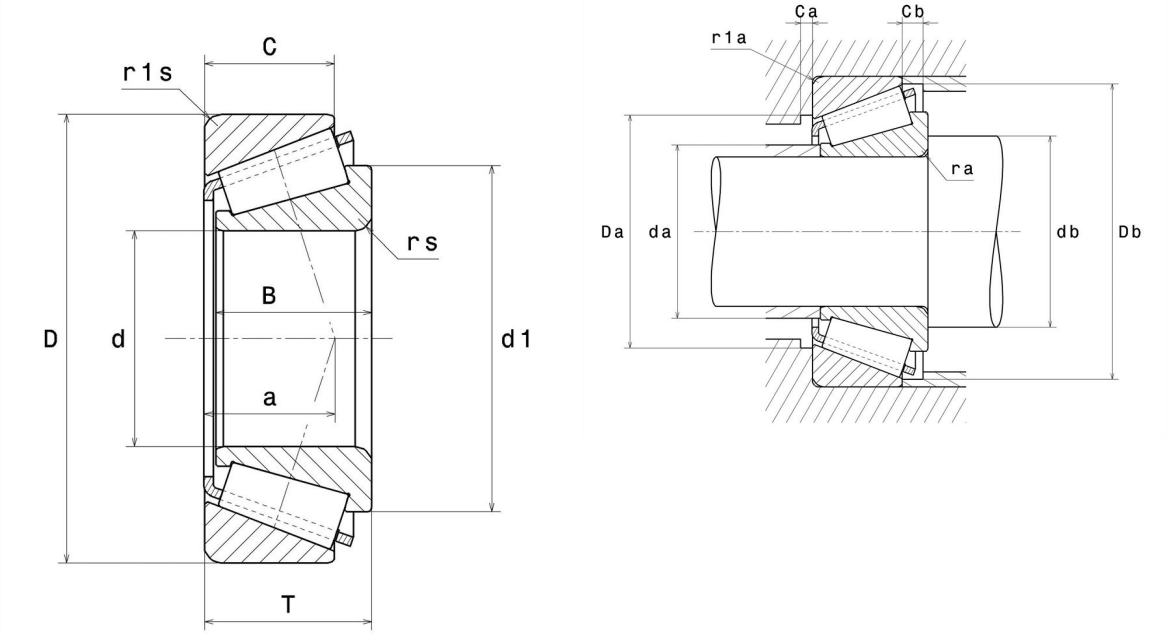
4T-JM822049/JM822010

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	110 mm
D	165 mm
B	35 mm
C	26.5 mm
T	35 mm
d1	137.5 mm
a	38 mm
e	0.5
Y2	1.21
Y0	0.66
Mass	2.52 kg
Brand	NTN

Product performance

Dynamic load, C	191 kN
Rating life coefficient, A2	1.4
Static load, C0	315 kN
Fatigue limit load, Cu	35 kN
Nlim (oil)	2,700 Tr/min
Nlim (grease)	2,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.37 Hz
Characteristic outer ring frequency, BPF0	12.27 Hz
Characteristic inner ring frequency, BPFI	14.73 Hz

Abutment dimensions

ra max	3 mm
r1a max	2.5 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