



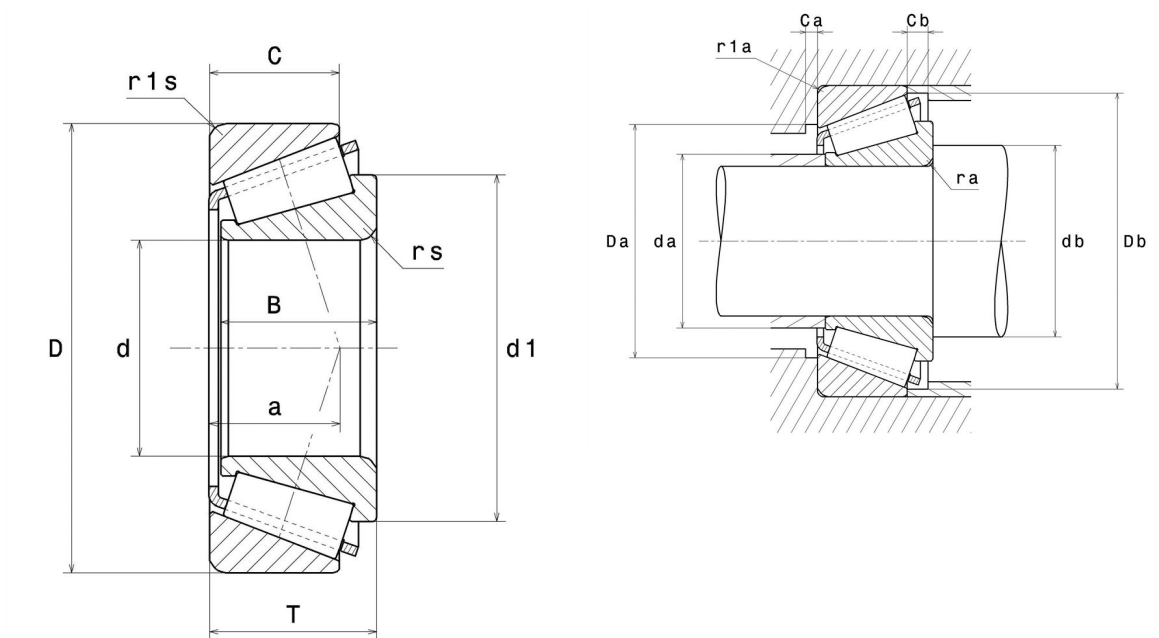
## Technical data

### 4T-LM501349/LM501311

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

## Visual(s)



## Product definition

<b>d</b>	41.28 mm
<b>D</b>	73.43 mm
<b>B</b>	19.81 mm
<b>C</b>	18.19 mm
<b>T</b>	23.01 mm
<b>a</b>	19.7 mm
<b>rs min</b>	3.5 mm
<b>r1s min</b>	2.3 mm
<b>e</b>	0.4
<b>Y2</b>	1.5
<b>Y0</b>	0.83
<b>Mass</b>	0.37 kg
<b>Brand</b>	NTN

## Product performance

<b>Dynamic load, C</b>	54 kN
<b>Rating life coefficient, A2</b>	1.4
<b>Static load, C0</b>	66 kN
<b>Nlim (oil)</b>	6,600 Tr/min
<b>Nlim (grease)</b>	5,000 Tr/min
<b>Min operating temperature, Tmin</b>	-40 °C
<b>Max operating temperature, Tmax</b>	120 °C
<b>Characteristic cage frequency, FTF</b>	0.43 Hz
<b>Characteristic rolling element frequency, BSF</b>	7.14 Hz
<b>Characteristic outer ring frequency, BPF0</b>	8.68 Hz
<b>Characteristic inner ring frequency, BPFI</b>	11.32 Hz

## Abutment dimensions

<b>ra max</b>	3.5 mm
<b>r1a max</b>	3.3 mm

## Calculation factors

### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

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

### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X <sub>0</sub>	Y <sub>0</sub>
0.5	Y0

If  $P_0 < F_r$ , then use  $P_0 = F_r$

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