

PDF technical sheet 4T67388/67322



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	5.0000 "
D	7.7500 "
B	1.8125 "
C	1.5000 "
T	1.8125 "
d1	6.5157 "
a	1.5645 "
e	0.34
Y2	1.74
Y0	0.96
Mass	17.99 oz
Brand	NTN



Product performance	
Dynamic load, C	310 kN
Rating life coefficient, A2	1.4
Static load, C0	550 kN
Fatigue limit load, Cu	57.70 kN
Nlim (oil)	2,200 RPM
Nlim (grease)	1,700 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.77 Hz
Characteristic outer ring frequency, BPF0	13.20 Hz
Characteristic inner ring frequency, BPFI	15.80 Hz



Abutment dimensions	
ra max	0.1378 "
r1a max	0.1299 "

Calculation factors

Equivalent dynamic radial load

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

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

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

X_0	Y_0
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