

PDF technical sheet 4T527



Single row tapered roller bearings

Mounted cone, sheet metal cage

Product definition	
d	1.7500 "
B	1.4200 "
d1	2.8898 "
e	0.29
Y2	2.1
Y0	1.16
Brand	NTN



Product performance	
Dynamic load, C	135 kN
Rating life coefficient, A2	1.4
Static load, C0	165 kN
Fatigue limit load, Cu	20.10 kN
Nlim (oil)	5,000 RPM
Nlim (grease)	3,800 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.61 Hz
Characteristic outer ring frequency, BPF0	6.23 Hz
Characteristic inner ring frequency, BPFI	8.78 Hz



Abutment dimensions	
ra max	0.1378 "

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