

PDF technical sheet 4T42350



Single row tapered roller bearings

Mounted cone, sheet metal cage

Product definition	
d	3.5000 "
B	1.1406 "
d1	4.8189 "
e	0.49
Y2	1.22
Y0	0.67
Brand	NTN



Product performance	
Dynamic load, C	138 kN
Rating life coefficient, A2	1.4
Static load, C0	215 kN
Fatigue limit load, Cu	24.70 kN
Nlim (oil)	3,100 RPM
Nlim (grease)	2,300 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.26 Hz
Characteristic outer ring frequency, BPF0	11.81 Hz
Characteristic inner ring frequency, BPFI	14.19 Hz



Abutment dimensions	
ra max	0.1181 "

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