

PDF technical sheet

ETLM522546/LM522510



Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	4.2500 "
D	6.2987 "
B	1.3750 "
C	1.0625 "
T	1.3750 "
d1	5.3937 "
a	1.3199 "
e	0.4
Y2	1.49
Y0	0.82
Mass	8.36 oz
Brand	NTN



Product performance	
Dynamic load, C	167 kN
Rating life coefficient, A2	1.9
Static load, C0	320 kN
Fatigue limit load, Cu	35.70 kN
Nlim (oil)	2,800 RPM
Nlim (grease)	2,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	13.57 Hz
Characteristic outer ring frequency, BPF0	15.80 Hz
Characteristic inner ring frequency, BPFI	18.20 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