

PDF technical sheet 32907XU



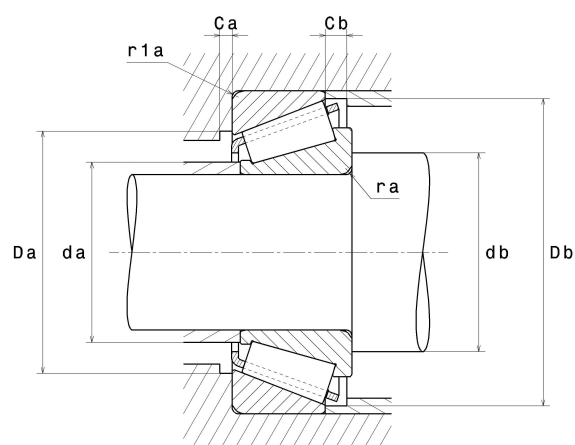
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Product definition	
d	1.3780 "
D	2.1654 "
B	0.5512 "
C	0.4528 "
T	0.5512 "
a	0.4134 "
rs min	0.0236 "
r1s min	0.0236 "
e	0.29
Y2	2.06
Y0	1.13
Mass	0.43 oz
ISO 355 reference	T2BD035
Brand	NTN



Product performance	
Dynamic load, C	27.40 kN
Rating life coefficient, A2	1
Static load, C0	37.50 kN
Fatigue limit load, Cu	4.55 kN
Nlim (oil)	9,000 RPM
Nlim (grease)	6,800 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da max	1.5551 "
db min	1.5748 "
Da max	1.9882 "
Db min	2.0669 "
ra max	0.0236 "
r1a max	0.0236 "

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