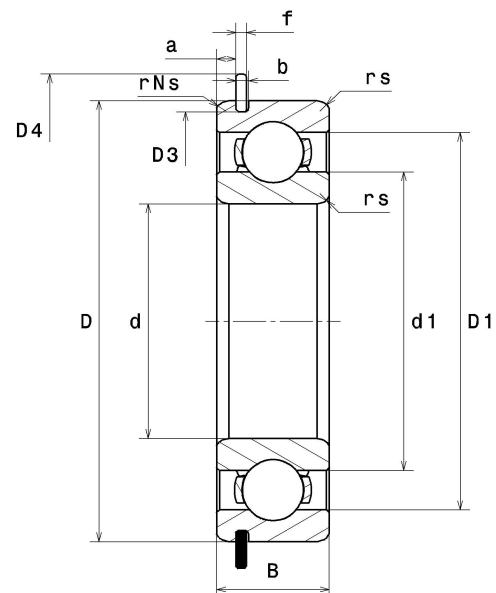


PDF technical sheet 62/22NR

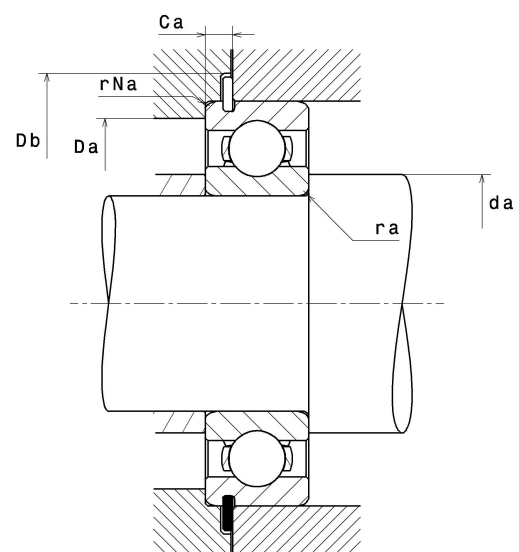


Single row deep groove ball bearings

Product definition	
d	0.8661 "
D	1.9685 "
B	0.5512 "
a min	0.0909 "
a max	0.0969 "
Ca min	0.1350 "
Ca max	0.1409 "
rs min	0.0394 "
rNs min	0.0197 "
D3 max	1.8740 "
b min	0.0531 "
b max	0.0650 "
r0 max	0.0157 "
D4 max	2.1929 "
f	0.0441 "
Snap ring reference	R50
Radial clearance class	CN
Mass	0.41 oz
Brand	NTN



Product performance	
Dynamic load, C	12.90 kN
Static load, C0	6.80 kN
Fatigue limit load, Cu	0.31 kN
f0	13.5
Nlim (oil)	17,000 RPM
Nlim (grease)	14,000 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C



Abutment dimensions

da min	1.0630 "
Da max	1.7717 "
ra max	0.0394 "
rNa max	0.0197 "
Db min	2.2244 "

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < Fr$, then use $P_0 = Fr$