

PDF technical sheet 6206HT200ZZ



Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications upto 200 °C.

Product definition	
d	30 mm
D	62 mm
B	16 mm
d1	37.90 mm
D1	55.10 mm
rs min	1 mm
Radial clearance class	C4
Mass	0.20 kg
Brand	SNR



Product performance	
Dynamic load, C	19.20 kN
Static load, C0	11.30 kN
Fatigue limit load, Cu	0.51 kN
f0	13.8
Nref	12,000 Tr/min
Nlim	6,600 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.62 Hz
Characteristic outer ring frequency, BPF0	3.57 Hz
Characteristic inner ring frequency, BPF1	5.43 Hz



Abutment dimensions

da min	35 mm
da max	37.90 mm
Da max	57 mm
ra max	1 mm

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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