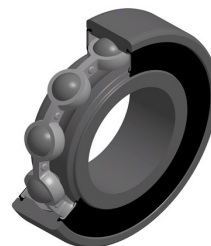


PDF technical sheet 6205KEE

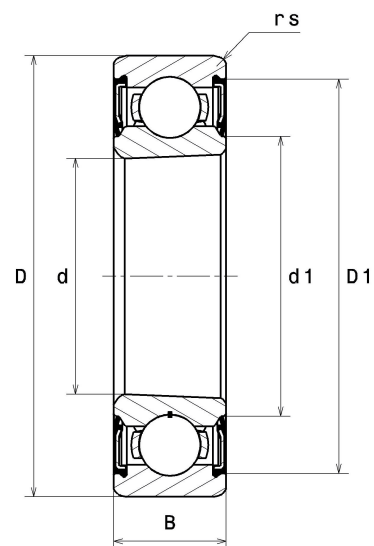


Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, tapered bore, contact seals on both sides

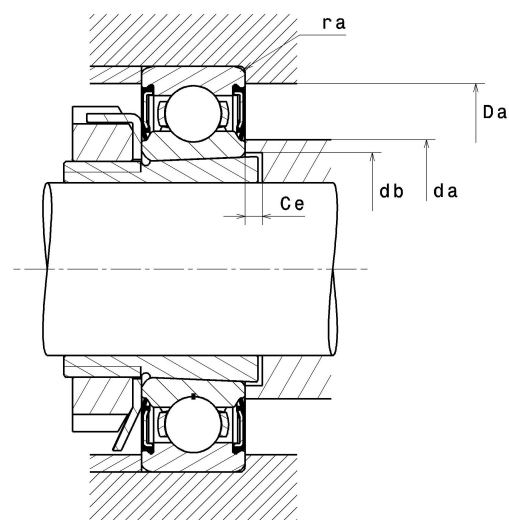
Product definition

d	0.9843 "
D	2.0472 "
B	0.5906 "
d1	1.2520 "
D1	1.9370 "
rs min	0.0394 "
Associated sleeve reference	H205
Radial clearance class	CN
Mass	0.44 oz
Brand	SNR



Product performance

Dynamic load, C	13.80 kN
Static load, C0	7.90 kN
Fatigue limit load, Cu	0.36 kN
f0	13.9
Nlim	9,000 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.72 Hz
Characteristic outer ring frequency, BPF0	3.59 Hz
Characteristic inner ring frequency, BPF1	5.42 Hz



Abutment dimensions

da min	1.1811 "
da max	1.2520 "
Da max	1.8504 "
ra max	0.0394 "

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot F_r + Y \cdot F_a$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0 \cdot F_r + Y_0 \cdot F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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