

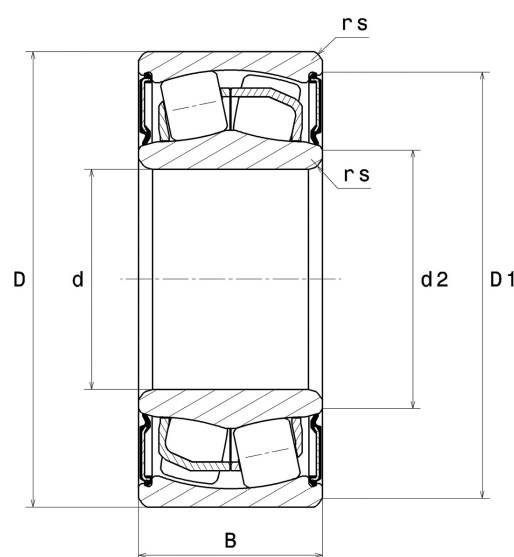
PDF technical sheet 10X22210EAEEL



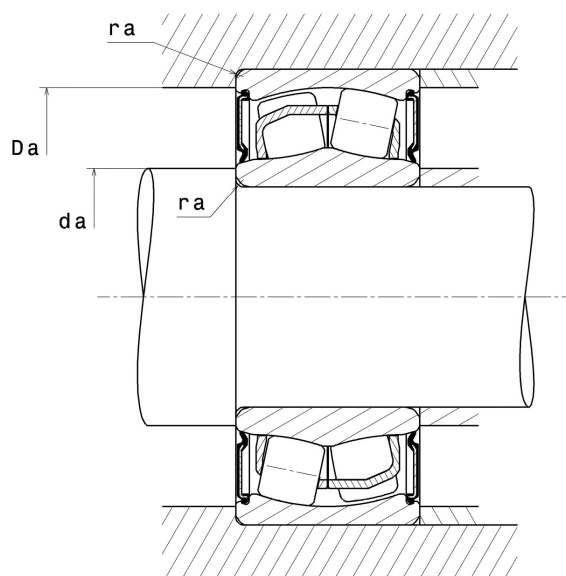
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, non ISO width, contact seals on both sides

Product definition	
d	1.9685 "
D	3.5433 "
B	1.1024 "
d2	2.2480 "
D1	3.3150 "
rs min	0.0433 "
Number of lubrication holes	
e	0.24
Y1	2.84
Y2	4.23
Y0	2.78
Radial clearance class	C0
Mass	2.50 oz
Brand	SNR



Product performance	
Dynamic load, C	130 kN
Static load, C0	124 kN
Fatigue limit load, Cu	17.30 kN
Nlim	2,285 RPM
Min operating temperature, Tmin	14 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.34 Hz
Characteristic outer ring frequency, BPF0	7.63 Hz
Characteristic inner ring frequency, BPF1	10.37 Hz



Abutment dimensions

da min	2.2441 "
da max	2.2480 "
Da max	3.2677 "
ra max	0.0394 "

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	Y1	0.67	Y2

Equivalent static radial load

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

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .