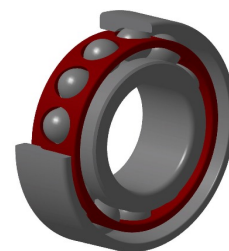


PDF technical sheet

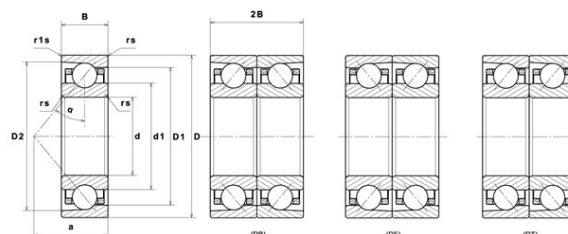
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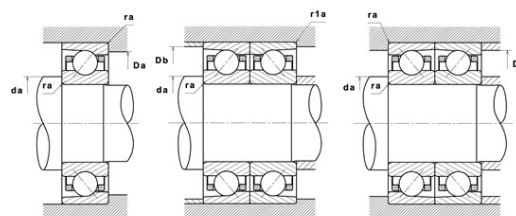
High precision angular contact ball bearings

High precision angular contact ball bearing, laminated resin cage centred on outer ring

Product definition	
d	6.6929 "
D	10.2362 "
B	1.6535 "
d1	7.8661 "
D1	9.0639 "
D2	9.5891 "
a	1.9685 "
Contact angle, α	15 °
rs min	0.0827 "
r1s min	0.0433 "
f0	16.061
Precision class	P4
Mass	24.62 oz
Brand	SNR



Product performance	
Dynamic load, C	198 kN
Static load, C0	230 kN
Fatigue limit load, Cu	8.30 kN
Nlim (oil)	8,100 RPM
Nlim (grease)	5,300 RPM
Axial displacement K Factor	0.75
Preload level	7
Peload value	1,550 kN
axial rigidity	234 N/ μ m
radial rigidity	1,313 N/ μ m
Min operating temperature, Tmin	-22 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.35 Hz
Characteristic outer ring frequency, BPF0	10.19 Hz
Characteristic inner ring frequency, BPF1	12.81 Hz



Abutment dimensions

da min	7.1654 "
db min	7.1654 "
Da max	9.7638 "
Db max	9.7638 "
r1a max	0.0394 "
ra max	0.0787 "
D6	8.1260 "

Calculation factors

Equivalent dynamic radial load

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

Series			e	Single or DT bearing arrangement				DB or DF arrangement			
				Fa / Fr ≤ e		Fa / Fr > e		Fa / Fr ≤ e		Fa / Fr > e	
				X	Y	X	Y	X	Y	X	Y
70 (NTN & SNR) 72 (NTN & SNR) 78 (NTN) 79 (NTN) 719 (SNR)	15°	0.178	0.38	1	0	0.44	1.47	1	1.65	0.72	2.39
		0.357	0.4				1.4		1.57		2.28
		0.714	0.43				1.3		1.46		2.11
		1.07	0.46				1.23		1.38		2
		1.43	0.47				1.19		1.34		1.93
		2.14	0.5				1.12		1.26		1.82
		3.57	0.55				1.02		1.14		1.66
		5.35	0.56						1.12		1.63
		7.14	0.56				1		1.12		1.63
	25°		0.68			0.41	0.87		0.92	0.67	1.41
	30°		0.8			0.39	0.76		0.78	0.63	1.24

Equivalent static radial load

$$Po = Xo \cdot Fr + Yo \cdot Fa$$

Series			Single or DT bearing arrangement		DB or DF arrangement	
			X ₀	Y ₀	X ₀	Y ₀
70 (NTN & SNR) 72 (NTN & SNR) 78 (NTN) 79 (NTN) 719 (SNR)	15°		0.5	0.46	1	0.92
	25°			0.38		0.76
	30°			0.33		0.66

For single or DT bearing arrangement :

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