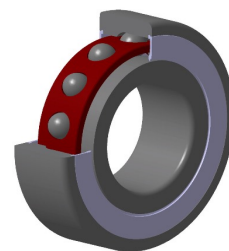


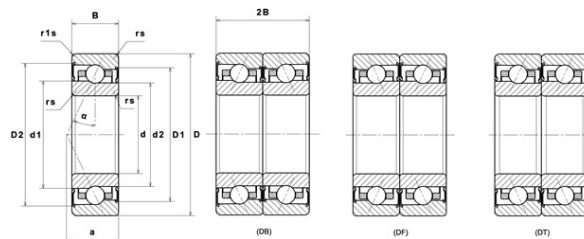
PDF technical sheet MLE7006CVUJ84S



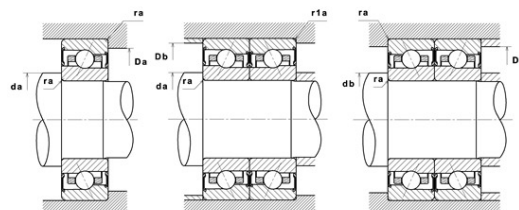
High precision angular contact ball bearings

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

Product definition	
d	30 mm
D	55 mm
B	13 mm
d1	38.10 mm
d2	36.15 mm
D1	48.55 mm
D2	50.15 mm
a	13 mm
Contact angle, α	17 °
rs min	1 mm
r1s min	0.60 mm
f0	7.983
Precision class	P4S
Mass	0.11 kg
Brand	SNR



Product performance	
Dynamic load, C	8.10 kN
Static load, C0	4.70 kN
Fatigue limit load, Cu	0.27 kN
Nlim (grease)	38,000 Tr/min
Axial displacement K Factor	1.38
Preload level	8
Peloid value	120 kN
axial rigidity	53 N/ μ m
radial rigidity	250 N/ μ m
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.38 Hz
Characteristic outer ring frequency, BPF0	8.73 Hz
Characteristic inner ring frequency, BPFI	11.27 Hz



Abutment dimensions

da min	35.50 mm
db min	35.50 mm
Da max	49.50 mm
Db max	49.50 mm
r1a max	0.60 mm
ra max	1 mm
D6	40.10 mm

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 $Po = Fr$