Technical datasheet

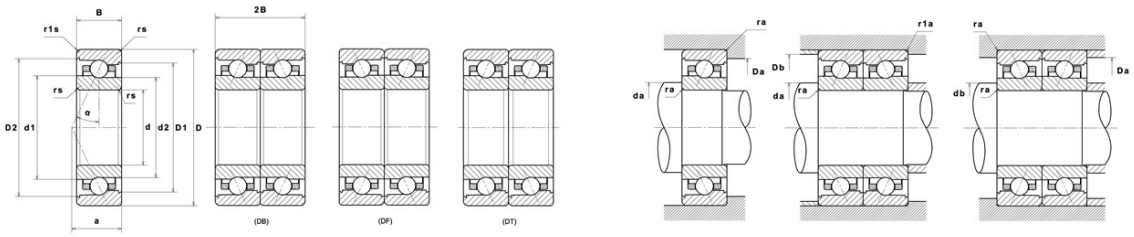
ML71905HVUJ74S

High precision angular contact ball bearings



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

Visual(s)



Product definition

d	25 mm
D	42 mm
B	9 mm
d1	30.6 mm
d2	29.4 mm
D1	37.65 mm
D2	38.95 mm
a	12 mm
Contact angle α	25 °
rs min	0.3 mm
r1s min	0.3 mm
f0	8.22
Precision class	P4S
Mass	0.04 kg
Brand	SNR

Product performance

Dynamic load, C	4.05 kN
Static load, C0	2.23 kN
Fatigue limit load, Cu	0.13 kN
Nlim (oil)	58,000 rpm
Nlim (grease)	40,000 rpm
Axial displacement K Factor	0.88
Preload level	7
Preload value	0.035 kN
Axial rigidity	52 N/µm
Radial rigidity	116 N/µm
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	8.32 Hz
Characteristic outer ring frequency, BPF0	8.48 Hz
Characteristic inner ring frequency, BPFI	10.52 Hz

Abutment dimensions

da min	27.5 mm
db min	27.5 mm
Da max	39.5 mm
Db max	39.5 mm
r1a max	0.3 mm
ra max	0.3 mm
D6	32.1 mm