



## BEARINGS(UK)LTD.

20 mm x 42 mm x 12 mm SNR  
CH7004CVUJ74 High precision angular contact  
ball bearings

Bearing No. CH7004CVUJ74

d	20 mm
D	42 mm
B	12 mm
d1	26.6 mm
D1	35.45 mm
D2	37.8 mm
a	10 mm
Contact angle	15 °
rs min	0.6 mm
r1s min	0.3 mm
f0	14.01
Precision class	P4
Mass	0.06 kg
Dynamic load, C	11.7 kN
Static load, C0	7.1 kN
Fatigue limit load, Cu	0.39 kN
Nlim (oil)	71,000 rpm
Nlim (grease)	47,000 rpm
Axial displacement K Factor	1.56
Preload level	7
Preload value	0.06 kN
Axial rigidity	37 N/ μ m
Radial rigidity	208 N/ μ m
Min operating temperature, Tmin	-30 ° C

CH7004CVUJ74 Bearing 2D drawings and 3D CAD  
models



## BEARINGS(UK)LTD.

Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.69 Hz
Characteristic outer ring frequency, BPF0	5.21 Hz
Characteristic inner ring frequency, BRFI	7.79 Hz
da min	24.5 mm
db min	24.5 mm
Da max	37.5 mm
Db max	37.5 mm
r1a max	0.3 mm
ra max	0.6 mm
D6	29 mm