



BEARINGS(UK)LTD.

20 mm x 37 mm x 9 mm NTN
7904UCG/GNP42U3G High precision angular
contact ball bearings

Bearing No. 7904UCG/GNP42U3G

| | |
|------------------------------------|--------------|
| d | 20 mm |
| D | 37 mm |
| B | 9 mm |
| d1 | 25.9 mm |
| d2 | 24.7 mm |
| D1 | 31.1 mm |
| D2 | 33.6 mm |
| a | 8.3 mm |
| Contact angle | 15 ° |
| rs min | 0.3 mm |
| r1s min | 0.15 mm |
| f0 | 14.9 |
| Precision class | P42 |
| Mass | 0.04 kg |
| Dynamic load, C | 7.65 kN |
| Static load, C0 | 4.9 kN |
| Nlim (oil) | 65,800 rpm |
| Nlim (grease) | 41,100 rpm |
| Preload level | GN |
| Preload value | 0.049 kN |
| Axial rigidity | 33.9 N/ μ m |
| Radial rigidity | 181.3 N/ μ m |
| Min operating temperature, Tmin | -20 ° C |
| Max operating temperature, | 120 ° C |

7904UCG/GNP42U3G Bearing 2D drawings and 3D
CAD models



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| | |
|---|---------|
| Tmax | |
| Characteristic cage frequency, FTF | 0.42 Hz |
| Characteristic rolling element frequency, BSF | 5.83 Hz |
| Characteristic outer ring frequency, BPF0 | 6.29 Hz |
| Characteristic inner ring frequency, BRFI | 8.71 Hz |
| da min | 22.5 mm |
| Da max | 34.5 mm |
| Db max | 35.8 mm |
| r1a max | 0.15 mm |
| ra max | 0.3 mm |
| D6 | 26.3 mm |