



## BEARINGS(UK)LTD.

40 mm x 68 mm x 15 mm NTN  
7008UCG/GNP42U3G High precision angular  
contact ball bearings

Bearing No. 7008UCG/GNP42U3G

d	40 mm
D	68 mm
B	15 mm
d1	49.7 mm
d2	47.7 mm
D1	58.3 mm
D2	62.5 mm
a	14.8 mm
Contact angle	15 °
rs min	1 mm
r1s min	0.6 mm
f0	15.4
Precision class	P42
Mass	0.19 kg
Dynamic load, C	21.4 kN
Static load, C0	16.8 kN
Nlim (oil)	34,700 rpm
Nlim (grease)	21,700 rpm
Preload level	GN
Preload value	0.127 kN
Axial rigidity	60.1 N/ μ m
Radial rigidity	335 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

7008UCG/GNP42U3G Bearing 2D drawings and 3D  
CAD models



## BEARINGS(UK)LTD.

Tmax	
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.67 Hz
Characteristic outer ring frequency, BPF0	7.72 Hz
Characteristic inner ring frequency, BRFI	10.28 Hz
da min	45.5 mm
Da max	62.5 mm
Db max	63.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	50.4 mm