



## BEARINGS(UK)LTD.

55 mm x 80 mm x 13 mm NTN  
7911UCG/GNP42U3G High precision angular  
contact ball bearings

Bearing No. 7911UCG/GNP42U3G

d	55 mm
D	80 mm
B	13 mm
d1	63.7 mm
d2	61.8 mm
D1	71.4 mm
D2	75.1 mm
a	15.6 mm
Contact angle	15 °
rs min	1 mm
r1s min	0.6 mm
f0	16.3
Precision class	P42
Mass	0.18 kg
Dynamic load, C	19.7 kN
Static load, C0	18.5 kN
Nlim (oil)	27,800 rpm
Nlim (grease)	17,400 rpm
Preload level	GN
Preload value	0.118 kN
Axial rigidity	65.5 N/ μ m
Radial rigidity	370 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

7911UCG/GNP42U3G Bearing 2D drawings and 3D  
CAD models



## BEARINGS(UK)LTD.

Tmax	
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.35 Hz
Characteristic outer ring frequency, BPF0	10.32 Hz
Characteristic inner ring frequency, BRFI	12.68 Hz
da min	60.5 mm
Da max	74.5 mm
Db max	75.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	64.1 mm