

# KOYO KGA055 angular contact ball bearings

KOYO KGA055 angular contact ball bearings 55x30x13 Size (mm)  
Product Brochures , 55 Bore Diameter (mm) Manufacturing  
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Size (mm)	55x30x13
Bore Diameter (mm)	55
Outer Diameter (mm)	30
Width (mm)	13
d	30 mm
D	55 mm
B	13 mm
d1	38.2 mm
d2	36.4 mm
D2	48.1 mm
r1,2 – min.	1 mm
r3,4 – min.	0.6 mm
a	13.3 mm
da – min.	34.6 mm
da – max.	37.8 mm
db – min.	34.6 mm
db – max.	36 mm
Da – max.	50.4 mm
Db – max.	50.8 mm
ra – max.	1 mm
rb – max.	0.6 mm
Basic dynamic load rating – C	9.2 kN

Basic static load rating – C0	5.2 kN
Fatigue load limit – Pu	0.22 kN
Limiting speed for grease lubrication	41000 r/min
Ball – Dw	6.35 mm
Ball – z	17
Calculation factor – e	0.57
Calculation factor – Y2	1.63
Calculation factor – Y0	0.84
Calculation factor – X2	0.7
Calculation factor – Y1	1.09
r1,2 min.	1 mm
r3,4 min.	0.6 mm
da min.	34.6 mm
da max.	37.8 mm
db min.	34.6 mm
db max.	36 mm
Da max.	50.4 mm
Db max.	50.8 mm
ra max.	1 mm
rb max.	0.6 mm
Basic dynamic load rating C	9.23 kN
Basic static load rating C0	5.2 kN
Fatigue load limit Pu	0.22 kN
Attainable speed for grease lubrication	41000 r/min
Ball diameter Dw	6.35 mm
Number of balls z	17
Calculation factor e	0.57
Calculation factor (single, tandem) Y2	1
Calculation factor (single, tandem) Y0	0.42

Calculation factor (single, tandem) X2	0.43
Calculation factor (back-to-back, face-to-face) Y1	1.09
Calculation factor (back-to-back, face-to-face) Y2	1.63
Calculation factor (back-to-back, face-to-face) Y0	0.84
Calculation factor (back-to-back, face-to-face) X2	0.7
Mass bearing	0.11 kg