

KOYO DC4868AVW cylindrical roller bearings

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Size (mm)	110x70x20
Bore Diameter (mm)	110
Outer Diameter (mm)	70
Width (mm)	20
d	70 mm
D	110 mm
B	20 mm
d1	84.3 mm
d2	81.6 mm
D1	95.32 mm
b	1.9 mm
C1	10.9 mm
C2	3.4 mm
C3	3.4 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	31.2 mm
da – min.	76 mm
db – min.	76 mm
Da – max.	104 mm
Db – max.	105.8 mm

ra – max.	1 mm
rb – max.	0.6 mm
dn	86.5 mm
Basic dynamic load rating – C	22.5 kN
Basic static load rating – C0	17.3 kN
Fatigue load limit – Pu	0.735 kN
Limiting speed for grease lubrication	18500 r/min
Limiting speed for oil lubrication	29000 mm/min
Ball – Dw	9.525 mm
Ball – z	25
Gref	8.2 cm ³
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	200 N
Preload class B – GB	610 N
Preload class C – GC	1220 N
Calculation factor – f	1.09
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.06
Calculation factor – fHC	1.01
Preload class A	159 N/micron
Preload class B	238 N/micron
Preload class C	311 N/micron
r1,2 min.	1.1 mm

r _{3,4} min.	0.6 mm
d _a min.	76 mm
d _b min.	76 mm
D _a max.	104 mm
D _b max.	105.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	22.5 kN
Basic static load rating C ₀	17.3 kN
Fatigue load limit P _u	0.735 kN
Attainable speed for grease lubrication	18500 r/min
Attainable speed for oil-air lubrication	29000 r/min
Ball diameter D _w	9.525 mm
Number of balls z	25
Reference grease quantity G _{ref}	8.2 cm ³
Preload class A G _A	200 N
Static axial stiffness, preload class A	159 N/μm
Preload class B G _B	610 N
Static axial stiffness, preload class B	238 N/μm
Preload class C G _C	1220 N
Static axial stiffness, preload class C	311 N/μm
Calculation factor f	1.09
Calculation factor f ₁	0.99
Calculation factor f _{2A}	1
Calculation factor f _{2B}	1.03
Calculation factor f _{2C}	1.06
Calculation factor f _{HC}	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y ₂	0.87

Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	0.56 kg