



KOYO PRECISION AXLE CORP.



55 mm x 80 mm x 13 mm SKF S71911 CD/P4A
angular contact ball bearings

Bearing No. S71911 CD/P4A

S71911 CD/P4A Bearing 2D drawings and 3D CAD models

Size	80x55x13 mm
Bore Diameter	80 mm
Outer Diameter	55 mm
Width	13 mm
d	55 mm
D	80 mm
B	13 mm
d ₁	62.7 mm
d ₂	62.7 mm
D ₂	74.57 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	15.6 mm
d _a - min.	59.6 mm
d _a - max.	62.1 mm
d _b - min.	59.6 mm
d _b - max.	62.1 mm
D _a - max.	75.4 mm
D _b - max.	78 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	19.5 kN
Basic static load rating - C ₀	14.6 kN
Fatigue load limit - P _u	0.62 kN



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Limiting speed for grease lubrication	16000 r/min
Ball - D_w	7.938 mm
Ball - z	23
Calculation factor - f_0	10.4
Preload class A - G_A	70 N
Preload class B - G_B	140 N
Preload class C - G_C	280 N
Preload class D - G_D	560 N
Calculation factor - f	1.15
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.09
Calculation factor - f_{2D}	1.15
Calculation factor - f_{HC}	1
Preload class A	49 N/micron
Preload class B	65 N/micron
Preload class C	89 N/micron
Preload class D	126 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	2 Seals
Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree



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Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Capacity Basic Design
Long Description	55MM Bore; 80MM Outside Diameter; 13MM Width; 2 Seals Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Width	0.512 Inch 13 Millimeter
Bore	2.165 Inch 55 Millimeter
Outside Diameter	3.15 Inch 80 Millimeter
d_1	62.7 mm
d_2	62.7 mm
D_2	74.57 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	59.6 mm
d_a max.	62.1 mm



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d_b min.	59.6 mm
d_b max.	62.1 mm
D_a max.	75.4 mm
D_b max.	78 mm
r_a max.	1 mm
r_b max.	0.3 mm
Basic dynamic load rating C	19.5 kN
Basic static load rating C_0	14.6 kN
Fatigue load limit P_u	0.62 kN
Attainable speed for grease lubrication	16000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	23
Preload class A G_A	70 N
Static axial stiffness, preload class A	49 N/ μ m
Preload class B G_B	140 N
Static axial stiffness, preload class B	65 N/ μ m
Preload class C G_C	280 N
Static axial stiffness, preload class C	89 N/ μ m
Preload class D G_D	560 N
Static axial stiffness, preload class D	126 N/ μ m
Calculation factor f	1.15
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.09
Calculation factor f_{2D}	1.15
Calculation factor f_{HC}	1
Calculation factor f_0	10.4
Mass bearing	0.18 kg



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