



Bearing de Mexico, S.A.



71909 CD/P4A Bearing 2D drawings and 3D CAD models

45 mm x 68 mm x 12 mm SKF 71909 CD/P4A
angular contact ball bearings

Bearing No. 71909 CD/P4A

Size	68x45x12 mm
Bore Diameter	68 mm
Outer Diameter	45 mm
Width	12 mm
d	45 mm
D	68 mm
B	12 mm
d ₁	52.6 mm
d ₂	52.6 mm
D ₁	60.4 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	13.6 mm
d _a - min.	48.2 mm
d _b - min.	48.2 mm
D _a - max.	64.8 mm
D _b - max.	66.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	54.2 mm
Basic dynamic load rating - C	13 kN
Basic static load rating - C ₀	9.5 kN
Fatigue load limit - P _u	0.4 kN
Limiting speed for grease	19000 r/min



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Lubrication	
Limiting speed for oil lubrication	32000 mm/min
Ball - D_w	6.35 mm
Ball - z	23
G_{ref}	1.62 cm ³
Calculation factor - f_0	10.5
Preload class A - G_A	50 N
Preload class B - G_B	100 N
Preload class C - G_C	200 N
Preload class D - G_D	400 N
Calculation factor - f	1.11
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	40 N/micron
Preload class B	53 N/micron
Preload class C	73 N/micron
Preload class D	103 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.15
EAN	7316570171389
Product Group	B04270
Enclosure	Open



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Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Precision
Long Description	45MM Bore; 68MM Outside Diameter; 12MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Rac
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	71909 CD/P4A
Weight / LBS	0.322
Bore	1.772 Inch 45 Millimeter
Outside Diameter	2.677 Inch 68 Millimeter
Width	0.472 Inch 12 Millimeter
d ₁	52.6 mm
d ₂	52.6 mm
D ₁	60.4 mm



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$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	48.2 mm
d_b min.	48.2 mm
D_a max.	64.8 mm
D_b max.	66.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	54.2 mm
Basic dynamic load rating C	13 kN
Basic static load rating C_0	9.5 kN
Fatigue load limit P_u	0.4 kN
Attainable speed for grease lubrication	19000 r/min
Attainable speed for oil-air lubrication	32000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	23
Reference grease quantity G_{ref}	1.62 cm ³
Preload class A G_A	50 N
Static axial stiffness, preload class A	40 N/ μ m
Preload class B G_B	100 N
Static axial stiffness, preload class B	53 N/ μ m
Preload class C G_C	200 N
Static axial stiffness, preload class C	73 N/ μ m
Preload class D G_D	400 N
Static axial stiffness, preload class D	103 N/ μ m
Calculation factor f	1.11
Calculation factor f_1	1



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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	10.5
Mass bearing	0.13 kg