



## San Driveshaft Co., Ltd.



7201 CD/HCP4A Bearing 2D drawings and 3D CAD models

### 12 mm x 32 mm x 10 mm SKF 7201 CD/HCP4A Duplex angular contact ball bearings

Bearing No. 7201 CD/HCP4A

Size	32x12x10 mm
Bore Diameter	32 mm
Outer Diameter	12 mm
Width	10 mm
d	12 mm
D	32 mm
B	10 mm
d <sub>1</sub>	18.6 mm
d <sub>2</sub>	18.6 mm
D <sub>1</sub>	25.4 mm
r <sub>1,2</sub> - min.	0.6 mm
r <sub>3,4</sub> - min.	0.3 mm
a	8 mm
d <sub>a</sub> - min.	16.2 mm
d <sub>b</sub> - min.	16.2 mm
D <sub>a</sub> - max.	27.8 mm
D <sub>b</sub> - max.	29.6 mm
r <sub>a</sub> - max.	0.6 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	20 mm
Basic dynamic load rating - C	5.8 kN
Basic static load rating - C <sub>0</sub>	2.6 kN
Fatigue load limit - P <sub>u</sub>	0.108 kN
Limiting speed for grease	67000 r/min



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Lubrication	
Limiting speed for oil lubrication	95000 mm/min
Ball - $D_w$	5.556 mm
Ball - $z$	10
$G_{ref}$	0.507 cm3
Calculation factor - $f_0$	8.5
Preload class A - $G_A$	22 N
Preload class B - $G_B$	44 N
Preload class C - $G_C$	88 N
Preload class D - $G_D$	176 N
Calculation factor - $f$	1.02
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.03
Calculation factor - $f_{2D}$	1.06
Calculation factor - $f_{HC}$	1.01
Preload class A	18 N/micron
Preload class B	24 N/micron
Preload class C	33 N/micron
Preload class D	46 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.038
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4



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Material - Ball	Ceramic
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   Super Precision   High Capacity   Hybrid   Corrosion Resistant Ball
Long Description	12MM Bore; 32MM Outside Diameter; 10MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearings; 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	Angular Contact Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	7201 CD/HCP4A
Weight / LBS	0.083
Bore	0.472 Inch   12 Millimeter
Width	0.394 Inch   10 Millimeter
Outside Diameter	1.26 Inch   32 Millimeter
d <sub>1</sub>	18.6 mm
d <sub>2</sub>	18.6 mm
D <sub>1</sub>	25.4 mm



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$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	16.2 mm
$d_b$ min.	16.2 mm
$D_a$ max.	27.8 mm
$D_b$ max.	29.6 mm
$r_a$ max.	0.6 mm
$r_b$ max.	0.3 mm
$d_n$	20 mm
Basic dynamic load rating C	5.85 kN
Basic static load rating $C_0$	2.55 kN
Fatigue load limit $P_u$	0.108 kN
Attainable speed for grease lubrication	67000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	10
Reference grease quantity $G_{ref}$	0.507 cm <sup>3</sup>
Preload class A $G_A$	22 N
Static axial stiffness, preload class A	18 N/ $\mu$ m
Preload class B $G_B$	44 N
Static axial stiffness, preload class B	24 N/ $\mu$ m
Preload class C $G_C$	88 N
Static axial stiffness, preload class C	33 N/ $\mu$ m
Preload class D $G_D$	176 N
Static axial stiffness, preload class D	46 N/ $\mu$ m
Calculation factor f	1.02
Calculation factor $f_1$	1



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Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.03
Calculation factor $f_{2D}$	1.06
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	8.5
Mass bearing	0.033 kg