



Bearing No. 7002 CD/P4A

D	32 mm
d	15 mm
B	9 mm
a	7.7 mm
Bore	0.591 Inch 15 Millimeter
Noun	Bearing
Width	0.354 Inch 9 Millimeter
UNSPSC	31171531
Preload	None
series:	70
Category	Precision Ball Bearings
Ball - z	12
Inventory	0.0
Enclosure	Open
Size (mm)	32x15x9
Width (mm)	9
Flush Ground	No
Weight / LBS	0.075
Mass bearing	0.03 kg
maximum rpm:	75000 RPM
d _n	21.5 mm
Inch - Metric	Metric
Product Group	B04270
d _n	21.5 mm
Contact Angle	15 Degree
D ₁	26.4 mm
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
d ₁	20.6 mm

d ₂	20.6 mm
D ₁	26.4 mm
d ₂	20.6 mm
d ₁	20.6 mm
closure type:	Open
Other Features	Single Row Angular Contact High Precision
contact angle:	15 °
Keyword String	Angular Contact Ball
fillet radius:	0.3 mm
bore diameter:	15 mm
overall width:	9 mm
Bearing number	7002 CD/P4A
Preload class A	17 N/micron
Precision Class	ABEC 7 ISO P4
Preload class C	31 N/micron
Preload class D	44 N/micron
Preload class B	23 N/micron
finish/coating:	Uncoated
G _{ref}	0.39 cm ³
Rolling Element	Ball Bearing
Material - Ball	Steel
Outside Diameter	1.26 Inch 32 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	15MM Bore; 32MM Outside Diameter; 9MM 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 Race
Weight / Kilogram	0.03

Manufacturer Name	SKF
Number of balls z	12
precision rating:	ABEC 7 (ISO Class 4)
outer ring width:	9 mm
bearing material:	Steel
outside diameter:	32 mm
d_b min.	17 mm
d_a min.	17 mm
Number of Bearings	1 (Single)
D_a max.	30 mm
D_b max.	30.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
Bore Diameter (mm)	32
Outer Diameter (mm)	15
internal clearance:	C0
D_b - max.	30.6 mm
r_a - max.	0.3 mm
r_b - max.	0.2 mm
d_b - min.	17 mm
D_a - max.	30 mm
$r_{3,4}$ min.	0.2 mm
d_a - min.	17 mm
$r_{1,2}$ min.	0.3 mm
Minimum Buy Quantity	N/A
Ball - D_w	4.762 mm
Calculation factor f	1.03
$r_{1,2}$ - min.	0.3 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.2 mm
ball screw application:	Not for Ball Screws

Manufacturer Item Number	7002 CD/P4A
Ball diameter D_w	4.762 mm
Basic dynamic load rating C	5.2 kN
radial static load capacity:	2.45 kN
Preload class D G_D	160 N
Preload class C G_C	80 N
radial dynamic load capacity:	5.2 kN
Basic dynamic load rating - C	5.2 kN
Preload class B G_B	40 N
Preload class A G_A	20 N
Preload class D - G_D	160 N
Preload class A - G_A	20 N
Preload class B - G_B	40 N
Preload class C - G_C	80 N
Calculation factor f_1	1
Calculation factor f_0	9.3
Fatigue load limit P_u	0.104 kN
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{2D}	1.09
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor - f_0	9.3
Limiting speed for oil lubrication	85000 mm/min
Fatigue load limit - P_u	0.104 kN
Calculation factor - f_{2A}	1

Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Limiting speed for grease lubrication	56000 r/min
Basic static load rating C_0	2.45 kN
Static axial stiffness, preload class C	31 N/ μ m
Static axial stiffness, preload class B	23 N/ μ m
Static axial stiffness, preload class D	44 N/ μ m
Static axial stiffness, preload class A	17 N/ μ m
Attainable speed for grease lubrication	56000 r/min
Basic static load rating - C_0	2.4 kN
Attainable speed for oil-air lubrication	85000 r/min
Reference grease quantity G_{ref}	0.39 cm ³