



Bearing No. 7201 ACD/P4A

a	10.2 mm
d	12 mm
D	32 mm
B	10 mm
Noun	Bearing
Bore	0.472 Inch 12 Millimeter
Width	0.394 Inch 10 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	10
Category	Precision Ball Bearings
Size (mm)	32x12x10
Enclosure	Open
Inventory	0.0
Width (mm)	10
Weight / LBS	0.093
Flush Ground	No
Mass bearing	0.037 kg
d_1	18.6 mm
d_2	18.6 mm
D_1	25.4 mm
Inch - Metric	Metric
Cage Material	Phenolic
d_n	20 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d_1	18.6 mm
d	20 mm

n	
D ₁	25.4 mm
d ₂	18.6 mm
Bearing number	7201 ACD/P4A
Other Features	Single Row Angular Contact Super Precision High Capacity
Keyword String	Angular Contact Ball
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	0.507 cm ³
Preload class D	90 N/micron
Preload class C	68 N/micron
Preload class B	52 N/micron
Preload class A	41 N/micron
Rolling Element	Ball Bearing
Outside Diameter	1.26 Inch 32 Millimeter
Long Description	12MM Bore; 32MM Outside Diameter; 10MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Rac
Manufacturer URL	http://www.skf.com
Weight / Kilogram	0.042
Manufacturer Name	SKF
Number of balls z	10
r _b max.	0.3 mm
Bore Diameter (mm)	32
D _a max.	27.8 mm

D_b max.	29.6 mm
d_a min.	16.2 mm
r_a max.	0.6 mm
Number of Bearings	1 (Single)
d_b min.	16.2 mm
Outer Diameter (mm)	12
d_a - min.	16.2 mm
$r_{1,2}$ min.	0.6 mm
d_b - min.	16.2 mm
Calculation factor f	1.02
$r_{3,4}$ min.	0.3 mm
Calculation factor e	0.68
D_a - max.	27.8 mm
Ball - D_w	5.556 mm
D_b - max.	29.6 mm
Minimum Buy Quantity	N/A
r_b - max.	0.3 mm
r_a - max.	0.6 mm
Calculation factor - e	0.68
Calculation factor - f	1.02
$r_{1,2}$ - min.	0.6 mm
$r_{3,4}$ - min.	0.3 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7201 ACD/P4A
Ball diameter D_w	5.556 mm
Basic dynamic load rating C	5.72 kN
Preload class A G_A	35 N
Preload class D G_D	280 N
Preload class C G_C	140 N
Basic dynamic load rating - C	5.7 kN

Preload class B G_B	70 N
Preload class C - G_C	140 N
Preload class A - G_A	35 N
Preload class D - G_D	280 N
Preload class B - G_B	70 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.104 kN
Calculation factor f_{2C}	1.02
Calculation factor f_{HC}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2D}	1.05
Calculation factor f_{2A}	1
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Limiting speed for oil lubrication	70000 mm/min
Fatigue load limit - P_u	0.104 kN
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.02
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	48000 r/min
Basic static load rating C_0	2.45 kN
Attainable speed for grease lubrication	48000 r/min

Static axial stiffness, preload class D	90 N/ μ m
Static axial stiffness, preload class C	68 N/ μ m
Static axial stiffness, preload class B	52 N/ μ m
Static axial stiffness, preload class A	41 N/ μ m
Attainable speed for oil-air lubrication	70000 r/min
Basic static load rating - C_0	2.4 kN
Reference grease quantity G_{ref}	0.507 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67