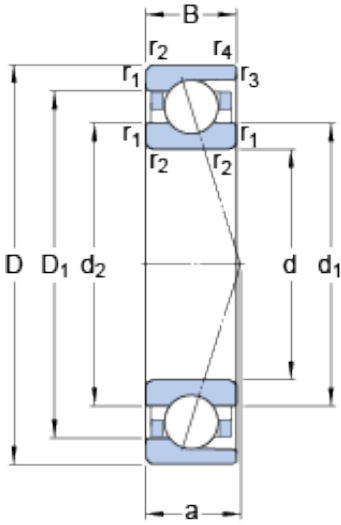




## ISO BEARING-SINGAPORE (PTE)LTD.



7022 CD/P4A Bearing 2D drawings and 3D CAD models

110 mm x 170 mm x 28 mm SKF 7022 CD/P4A angular contact ball bearings

Bearing No. 7022 CD/P4A

Size	170x110x28 mm
Bore Diameter	170 mm
Outer Diameter	110 mm
Width	28 mm
d	110 mm
D	170 mm
B	28 mm
d <sub>1</sub>	128.5 mm
d <sub>2</sub>	128.5 mm
D <sub>1</sub>	151.5 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	32.9 mm
d <sub>a</sub> - min.	119 mm
d <sub>b</sub> - min.	119 mm
D <sub>a</sub> - max.	161 mm
D <sub>b</sub> - max.	165 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	132.6 mm
Basic dynamic load rating - C	111 kN
Basic static load rating - C <sub>0</sub>	108 kN
Fatigue load limit - P <sub>u</sub>	3.9 kN
Limiting speed for grease	7500 r/min



## ISO BEARING-SINGAPORE (PTE)LTD.

Lubrication	
Limiting speed for oil lubrication	12000 mm/min
Ball - $D_w$	19.05 mm
Ball - $z$	20
$G_{ref}$	25.5 cm <sup>3</sup>
Calculation factor - $f_0$	15.5
Preload class A - $G_A$	420 N
Preload class B - $G_B$	840 N
Preload class C - $G_C$	1680 N
Preload class D - $G_D$	3360 N
Calculation factor - $f$	1.14
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1
Preload class A	122 N/micron
Preload class B	166 N/micron
Preload class C	232 N/micron
Preload class D	337 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	2.072
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4



## ISO BEARING-SINGAPORE (PTE)LTD.

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	110MM Bore; 170MM Outside Diameter; 28MM 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 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	7022 CD/P4A
Weight / LBS	4.564
Bore	4.331 Inch   110 Millimeter
Width	1.102 Inch   28 Millimeter
Outside Diameter	6.693 Inch   170 Millimeter
d <sub>1</sub>	128.5 mm
d <sub>2</sub>	128.5 mm
D <sub>1</sub>	151.5 mm
r <sub>1,2</sub> min.	2 mm



## ISO BEARING-SINGAPORE (PTE)LTD.

$r_{3,4}$ min.	1 mm
$d_a$ min.	119 mm
$d_b$ min.	119 mm
$D_a$ max.	161 mm
$D_b$ max.	165 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	132.6 mm
Basic dynamic load rating C	111 kN
Basic static load rating $C_0$	108 kN
Fatigue load limit $P_u$	3.9 kN
Attainable speed for grease lubrication	7500 r/min
Attainable speed for oil-air lubrication	12000 r/min
Ball diameter $D_w$	19.05 mm
Number of balls z	20
Reference grease quantity $G_{ref}$	25.5 cm <sup>3</sup>
Preload class A $G_A$	420 N
Static axial stiffness, preload class A	122 N/ $\mu$ m
Preload class B $G_B$	840 N
Static axial stiffness, preload class B	166 N/ $\mu$ m
Preload class C $G_C$	1680 N
Static axial stiffness, preload class C	232 N/ $\mu$ m
Preload class D $G_D$	3360 N
Static axial stiffness, preload class D	337 N/ $\mu$ m
Calculation factor f	1.14
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1



## ISO BEARING-SINGAPORE (PTE)LTD.

Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	15.5
Mass bearing	1.97 kg