



# NUP BEARING LTD



15 mm x 24 mm x 5 mm skf 71802 CD/P4 Super-precision Angular contact ball bearings

Bearing No. 71802 CD/P4

71802 CD/P4 Bearing 2D drawings and 3D CAD models

Size	24x15x5 mm
Bore Diameter	24 mm
Outer Diameter	15 mm
Width	5 mm
d	15 mm
D	24 mm
B	5 mm
d <sub>1</sub>	18.1 mm
d <sub>2</sub>	18.1 mm
D <sub>1</sub>	21.1 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	5.1 mm
d <sub>a</sub> - min.	17 mm
d <sub>b</sub> - min.	17 mm
D <sub>a</sub> - max.	22 mm
D <sub>b</sub> - max.	23.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	18.4 mm
Basic dynamic load rating - C	2.3 kN
Basic static load rating - C <sub>0</sub>	1.5 kN
Fatigue load limit - P <sub>u</sub>	0.063 kN
Limiting speed for grease	60000 r/min



## NUP BEARING LTD

Lubrication	
Limiting speed for oil lubrication	90000 mm/min
Ball - $D_w$	2.381 mm
Ball - $z$	17
$G_{ref}$	0.08 cm3
Calculation factor - $f_0$	16
Preload class A - $G_A$	12 N
Preload class B - $G_B$	36 N
Preload class C - $G_C$	72 N
Calculation factor - $f$	1.08
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.09
Calculation factor - $f_{2C}$	1.16
Calculation factor - $f_{HC}$	1
Preload class A	17 N/micron
Preload class B	30 N/micron
Preload class C	43 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.013
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None



## NUP BEARING LTD

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
Long Description	15MM Bore; 24MM Outside Diameter; 5MM 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
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	71802 CD/P4
Weight / LBS	0.028
Bore	0.591 Inch   15 Millimeter
Width	0.197 Inch   5 Millimeter
Outside Diameter	0.945 Inch   24 Millimeter
d <sub>1</sub>	18.1 mm
d <sub>2</sub>	18.1 mm
D <sub>1</sub>	21.1 mm
r <sub>1,2</sub> min.	0.3 mm
r <sub>3,4</sub> min.	0.15 mm
d <sub>a</sub> min.	17 mm
d <sub>b</sub> min.	17 mm
D <sub>a</sub> max.	22 mm



## NUP BEARING LTD

$D_b$ max.	23.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	18.4 mm
Basic dynamic load rating C	2.29 kN
Basic static load rating $C_0$	1.5 kN
Fatigue load limit $P_u$	0.063 kN
Attainable speed for grease lubrication	60000 r/min
Attainable speed for oil-air lubrication	90000 r/min
Ball diameter $D_w$	2.381 mm
Number of balls z	17
Reference grease quantity $G_{ref}$	0.08 cm <sup>3</sup>
Preload class A $G_A$	12 N
Static axial stiffness, preload class A	17 N/ $\mu$ m
Preload class B $G_B$	36 N
Static axial stiffness, preload class B	30 N/ $\mu$ m
Preload class C $G_C$	72 N
Static axial stiffness, preload class C	43 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.09
Calculation factor $f_{2C}$	1.16
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	16
Mass bearing	0.007 kg