



UGE BEARING INDUSTRIAL CO., LTD.



71800 ACD/P4 Bearing 2D drawings and 3D CAD models

10 mm x 19 mm x 5 mm SKF 71800 ACD/P4
Pre-packed with WPH waterproof grease Precision Bearings

Bearing No. 71800 ACD/P4

Size	19x10x5 mm
Bore Diameter	19 mm
Outer Diameter	10 mm
Width	5 mm
d	10 mm
D	19 mm
B	5 mm
d ₁	13.1 mm
d ₂	13.1 mm
D ₁	16.1 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	5.9 mm
d _a - min.	12 mm
d _b - min.	12 mm
D _a - max.	17 mm
D _b - max.	18.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	13.4 mm
Basic dynamic load rating - C	1.8 kN
Basic static load rating - C ₀	0.93 kN
Fatigue load limit - P _u	0.04 kN



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Limiting speed for grease lubrication	70000 r/min
Limiting speed for oil lubrication	110000 mm/min
Ball - D_w	2.381 mm
Ball - z	12
G_{ref}	0.06 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	16 N
Preload class B - G_B	48 N
Preload class C - G_C	100 N
Calculation factor - f	1.05
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.08
Calculation factor - f_{2C}	1.15
Calculation factor - f_{HC}	1
Preload class A	30 N/micron
Preload class B	47 N/micron
Preload class C	65 N/micron
Category	Miniature Precision Ball Bearings
Inventory	0.0



UGE BEARING INDUSTRIAL CO., LTD.

Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.01
EAN	7316574345922
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Flanges	No
Material - Ball	Steel
Race Material	Steel
Raceway Style	1 Rib Outer Ring
Number of Bearings	1 (Single)
Contact Angle	25 Degree
Preload	None
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact Super Precision
Long Description	10MM Bore; 19MM Outside Diameter; 5MM Inner Race Width; 5MM Outer Race Width; Open Enclosure; ABEC 7 ISO P4 Precision; No Flange; Steel Ball Material; Steel Race Material; 1 (Single) Bearing
Category	Miniature Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com



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Manufacturer Item Number	71800 ACD/P4
Weight / LBS	0.023
Inner Race Width	0.197 Inch 5 Millimeter
Outside Diameter	0.748 Inch 19 Millimeter
Flange Outside Diameter	0 Inch 0 Millimeter
Bore	0.394 Inch 10 Millimeter
Outer Race Width	0.197 Inch 5 Millimeter
d_1	13.1 mm
d_2	13.1 mm
D_1	16.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	12 mm
d_b min.	12 mm
D_a max.	17 mm
D_b max.	18.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	13.4 mm
Basic dynamic load rating C	1.78 kN
Basic static load rating C_0	0.93 kN
Fatigue load limit P_u	0.04 kN
Attainable speed for grease lubrication	70000 r/min
Attainable speed for oil-air lubrication	110000 r/min
Ball diameter D_w	2.381 mm
Number of balls z	12
Reference grease quantity G_{ref}	0.06 cm ³
Preload class A G_A	16 N
Static axial stiffness, preload class A	30 N/ μ m



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Preload class B G_B	48 N
Static axial stiffness, preload class B	47 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	65 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.08
Calculation factor f_{2C}	1.15
Calculation factor f_{HC}	1
Calculation factor e	0.68
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
Mass bearing	0.005 kg