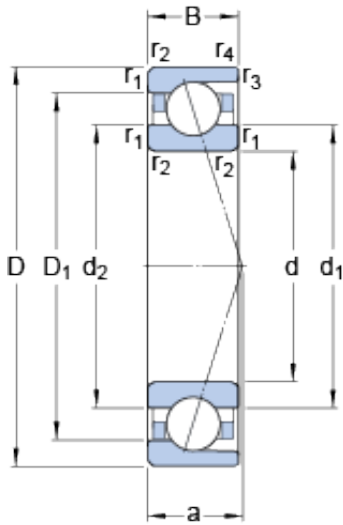




AMERICAN BEARING MFG.CORP.



708 ACD/P4A Bearing 2D drawings and 3D CAD models

8 mm x 22 mm x 7 mm SKF 708 ACD/P4A
angular contact ball bearings

Bearing No. 708 ACD/P4A

Size	22x8x7 mm
Bore Diameter	22 mm
Outer Diameter	8 mm
Width	7 mm
d	8 mm
D	22 mm
B	7 mm
d ₁	12.6 mm
d ₂	12.6 mm
D ₁	17.4 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	7 mm
d _a - min.	10 mm
d _b - min.	10 mm
D _a - max.	20 mm
D _b - max.	20.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	13.6 mm
Basic dynamic load rating - C	3.2 kN
Basic static load rating - C ₀	1.3 kN
Fatigue load limit - P _u	0.056 kN
Limiting speed for grease	80000 r/min



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Lubrication	
Limiting speed for oil lubrication	120000 mm/min
Ball - D_w	3.969 mm
Ball - z	9
G_{ref}	0.15 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	20 N
Preload class B - G_B	40 N
Preload class C - G_C	80 N
Preload class D - G_D	160 N
Calculation factor - f	1.02
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Preload class A	29 N/micron
Preload class B	37 N/micron
Preload class C	48 N/micron
Preload class D	64 N/micron



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Category	Miniature Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.018
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 High Precision
Long Description	8MM Bore; 22MM Outside Diameter; 7MM Inner Race Width; 7MM 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



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Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	708 ACD/P4A
Weight / LBS	0.04
Bore	0.315 Inch 8 Millimeter
Outside Diameter	0.866 Inch 22 Millimeter
Inner Race Width	0.276 Inch 7 Millimeter
Flange Outside Diameter	0 Inch 0 Millimeter
Outer Race Width	0.276 Inch 7 Millimeter
bore diameter:	8 mm
radial dynamic load capacity:	2.91 kN
outside diameter:	22 mm
radial static load capacity:	1.12 kN
overall width:	7 mm
outer ring width:	7 mm
contact angle:	25 °
maximum rpm:	100000 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 7 (ISO Class 4)
closure type:	Open
fillet radius:	0.3 mm
bearing material:	Steel
series:	70
d ₁	12.6 mm
d ₂	12.6 mm
D ₁	17.4 mm
r _{1,2} min.	0.3 mm
r _{3,4} min.	0.2 mm
d _a min.	10 mm
d _b min.	10 mm



AMERICAN BEARING MFG.CORP.

D_a max.	20 mm
D_b max.	20.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	13.6 mm
Basic dynamic load rating C	3.19 kN
Basic static load rating C_0	1.34 kN
Fatigue load limit P_u	0.056 kN
Attainable speed for grease lubrication	80000 r/min
Attainable speed for oil-air lubrication	120000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	9
Reference grease quantity G_{ref}	0.15 cm ³
Preload class A G_A	20 N
Static axial stiffness, preload class A	29 N/ μ m
Preload class B G_B	40 N
Static axial stiffness, preload class B	37 N/ μ m
Preload class C G_C	80 N
Static axial stiffness, preload class C	48 N/ μ m
Preload class D G_D	160 N
Static axial stiffness, preload class D	64 N/ μ m
Calculation factor f	1.02
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08



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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	0.012 kg