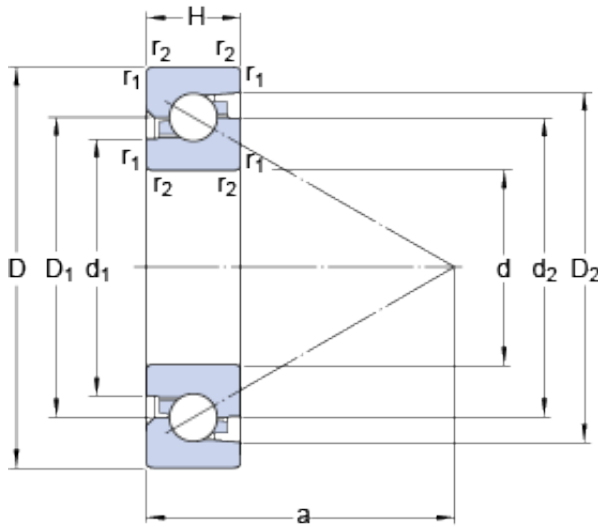




Super-Precision Bearings Manufacturer



BSD 2047 C Bearing 2D drawings and 3D CAD models

SKF BSD 2047 C super-precision bearings

Bearing No. BSD 2047 C

| | |
|---|--------------|
| Size | 20x47x15 mm |
| Bore Diameter | 20 mm |
| Outer Diameter | 47 mm |
| Width | 15 mm |
| d | 20 mm |
| D | 47 mm |
| H | 15 mm |
| d ₁ | 29.4 mm |
| d ₂ | 34.5 mm |
| D ₁ | 34.6 mm |
| D ₂ | 40.65 mm |
| r _{1,2} - min. | 1 mm |
| a | 40 mm |
| d _a - min. | 27 mm |
| d _b - min. | 27 mm |
| D _a - max. | 42.5 mm |
| D _b - max. | 42.5 mm |
| r _a - max. | 1 mm |
| Basic dynamic load rating - C | 22 kN |
| Basic static load rating - C ₀ | 49 kN |
| Fatigue load limit - P _u | 1.8 kN |
| Limiting speed for grease lubrication | 9500 r/min |
| Limiting speed for oil lubrication | 12000 mm/min |



Super-Precision Bearings Manufacturer

| | |
|--|---------------------|
| Preload class A | 1480 N |
| Preload class B | 2960 N |
| Frictional moment, Preload class A | 0.05 N · m |
| Frictional moment, Preload class B | 0.091 N · m |
| Static Axial rigidity, Preload class A | 680 N/micron |
| Static Axial rigidity, Preload class B | 860 N/micron |
| Max. axial load - F_a | max. 14.5 kN |
| G_{ref} | 1.4 cm ³ |
| d_1 | 29.4 mm |
| d_2 | 34.5 mm |
| D_1 | 34.6 mm |
| D_2 | 40.65 mm |
| $r_{1,2}$ min. | 1 mm |
| d_a min. | 27 mm |
| d_b min. | 27 mm |
| D_a max. | 42.5 mm |
| D_b max. | 42.5 mm |
| r_a max. | 1 mm |
| Basic dynamic load rating C | 22 kN |
| Basic static load rating C_0 | 49 kN |
| Fatigue load limit P_u | 1.8 kN |
| Attainable speed for grease lubrication | 9500 r/min |
| Attainable speed for oil-air lubrication | 12000 r/min |
| Frictional moment, preload class A | 0.05 N · m |
| Frictional moment, preload class B | 0.091 N · m |
| Static axial stiffness, preload A | 680 N/ μ m |



Super-Precision Bearings Manufacturer

| | |
|--|---------------------|
| Static axial stiffness, preload B | 860 N/ μ m |
| Maximum axial load carrying capacity F_a max. | 14.5 kN |
| Reference grease quantity G_{ref} | 1.4 cm ³ |
| Mass bearing | 0.13 kg |