



YUKEN Piston Pump Ltd.



61811 Bearing 2D drawings and 3D CAD models

SKF Bearing deep groove ball bearing 61811
high precision ultra quiet high speed long life

Bearing No. 61811

| | |
|---|--------------------------|
| Size | 72x55x9 mm |
| Bore Diameter | 72 mm |
| Outer Diameter | 55 mm |
| Width | 9 mm |
| d | 55 mm |
| D | 72 mm |
| B | 9 mm |
| d ₁ | 60.6 mm |
| D ₁ | 66.4 mm |
| r _{1,2} - min. | 0.3 mm |
| d _a - min. | 57 mm |
| D _a - max. | 70 mm |
| r _a - max. | 0.3 mm |
| Basic dynamic load rating - C | 9 kN |
| Basic static load rating - C ₀ | 8.8 kN |
| Fatigue load limit - P _u | 0.375 kN |
| Reference speed | 19000 r/min |
| Limiting speed | 12000 r/min |
| Calculation factor - k _r | 0.015 |
| Calculation factor - f ₀ | 17 |
| Category | Single Row Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |



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| | |
|---------------------------------|---|
| Weight / Kilogram | 0.093 |
| Product Group | B00308 |
| Enclosure | Open |
| Precision Class | ABEC 1 ISO P0 |
| Maximum Capacity / Filling Slot | No |
| Rolling Element | Ball Bearing |
| Snap Ring | No |
| Internal Special Features | No |
| Cage Material | Steel |
| Internal Clearance | C0-Medium |
| Inch - Metric | Metric |
| Long Description | 55MM Bore; 72MM Outside Diameter; 9MM Outer Race Diameter; Open; Ball Bearing; ABEC 1 ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features |
| Category | Single Row Ball Bearing |
| UNSPSC | 31171504 |
| Harmonized Tariff Code | 8482.10.50.68 |
| Noun | Bearing |
| Keyword String | Ball |
| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 61811 |
| Weight / LBS | 0.2 |
| Outside Diameter | 2.835 Inch 72 Millimeter |
| Outer Race Width | 0.354 Inch 9 Millimeter |
| Bore | 2.165 Inch 55 Millimeter |
| bore diameter: | 55 mm |
| static load capacity: | 8.8 kN |
| outside diameter: | 72 mm |
| precision rating: | Not Rated |
| | |



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| | |
|--------------------------------|--------------------------|
| overall width: | 9 mm |
| finish/coating: | Uncoated |
| bore type: | Round |
| cage material: | Steel |
| closure type: | Open |
| outer ring width: | 9 mm |
| row type & fill slot: | Single Row Non-Fill Slot |
| fillet radius: | 0.3 mm |
| snap ring included: | Without Snap Ring |
| maximum rpm: | 12000 RPM |
| internal clearance: | C0 |
| series: | 61 |
| dynamic load capacity: | 9.04 kN |
| d_1 | 60.3 mm |
| D_1 | 67 mm |
| $r_{1,2}$ min. | 0.3 mm |
| d_a min. | 57 mm |
| D_a max. | 70 mm |
| r_a max. | 0.3 mm |
| Basic dynamic load rating C | 9.04 kN |
| Basic static load rating C_0 | 8.8 kN |
| Fatigue load limit P_u | 0.375 kN |
| Calculation factor k_r | 0.015 |
| Calculation factor f_0 | 17 |
| Mass bearing | 0.083 kg |