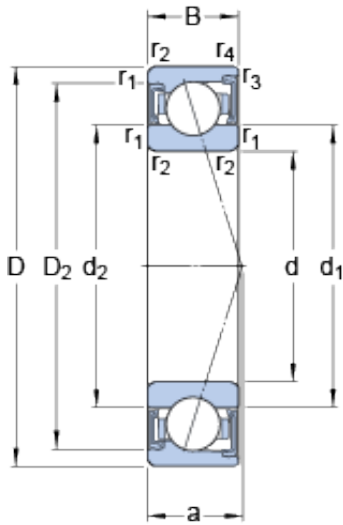




# BEARING CORP. LTD.

55 mm x 100 mm x 21 mm SKF S7211 CD/P4A  
angular contact ball bearings

Bearing No. S7211 CD/P4A



S7211 CD/P4A Bearing 2D drawings and 3D CAD models

|   |              |
|---|--------------|
| Size                                      | 100x55x21 mm |
| Bore Diameter                             | 100 mm       |
| Outer Diameter                            | 55 mm        |
| Width                                     | 21 mm        |
| d   | 55 mm        |
| D   | 100 mm       |
| B   | 21 mm        |
| d <sub>1</sub>                            | 68.9 mm      |
| d <sub>2</sub>                            | 68.9 mm      |
| D <sub>2</sub>                            | 89.1 mm      |
| r <sub>1,2</sub> - min.                   | 1.5 mm       |
| r <sub>3,4</sub> - min.                   | 0.6 mm       |
| a   | 21 mm        |
| d <sub>a</sub> - min.                     | 64 mm        |
| d <sub>a</sub> - max.                     | 68.1 mm      |
| d <sub>b</sub> - min.                     | 64 mm        |
| d <sub>b</sub> - max.                     | 68.1 mm      |
| D <sub>a</sub> - max.                     | 91 mm        |
| D <sub>b</sub> - max.                     | 95.8 mm      |
| r <sub>a</sub> - max.                     | 1.5 mm       |
| r <sub>b</sub> - max.                     | 0.6 mm       |
| Basic dynamic load rating - C             | 55.3 kN      |
| Basic static load rating - C <sub>0</sub> | 43 kN        |
| Fatigue load limit - P <sub>u</sub>       | 1.8 kN       |



## BEARING CORP. LTD.

|                                       |              |
|---------------------------------------|--------------|
| Limiting speed for grease lubrication | 14000 r/min  |
| Ball - $D_w$                          | 14.288 mm    |
| Ball - z                              | 15           |
| Calculation factor - $f_0$            | 14.5         |
| Preload class A - $G_A$               | 210 N        |
| Preload class B - $G_B$               | 420 N        |
| Preload class C - $G_C$               | 840 N        |
| Preload class D - $G_D$               | 1680 N       |
| Calculation factor - f                | 1.08         |
| Calculation factor - f                | 1            |
| Calculation factor - $f_{2A}$         | 1            |
| Calculation factor - $f_{2B}$         | 1.01         |
| Calculation factor - $f_{2C}$         | 1.03         |
| Calculation factor - $f_{2D}$         | 1.05         |
| Calculation factor - $f_{HC}$         | 1            |
| Preload class A                       | 72 N/micron  |
| Preload class B                       | 98 N/micron  |
| Preload class C                       | 137 N/micron |
| Preload class D                       | 197 N/micron |
| $d_1$                                 | 68.9 mm      |
| $d_2$                                 | 68.9 mm      |
| $D_2$                                 | 89.1 mm      |
| $r_{1,2}$ min.                        | 1.5 mm       |
| $r_{3,4}$ min.                        | 0.6 mm       |
| $d_a$ min.                            | 64 mm        |
| $d_a$ max.                            | 68.1 mm      |
| $d_b$ min.                            | 64 mm        |
| $d_b$ max.                            | 68.1 mm      |
| $D_a$ max.                            | 91 mm        |
| $D_b$ max.                            | 95.8 mm      |



## BEARING CORP. LTD.

|   |                |
|---|----------------|
| $r_a$ max.                              | 1.5 mm         |
| $r_b$ max.                              | 0.6 mm         |
| Basic dynamic load rating C             | 55.3 kN        |
| Basic static load rating $C_0$          | 43 kN          |
| Fatigue load limit $P_u$                | 1.8 kN         |
| Attainable speed for grease lubrication | 14000 r/min    |
| Ball diameter $D_w$                     | 14.288 mm      |
| Number of balls z                       | 15             |
| Preload class A $G_A$                   | 210 N          |
| Static axial stiffness, preload class A | 72 N/ $\mu$ m  |
| Preload class B $G_B$                   | 420 N          |
| Static axial stiffness, preload class B | 98 N/ $\mu$ m  |
| Preload class C $G_C$                   | 840 N          |
| Static axial stiffness, preload class C | 137 N/ $\mu$ m |
| Preload class D $G_D$                   | 1680 N         |
| Static axial stiffness, preload class D | 197 N/ $\mu$ m |
| Calculation factor f                    | 1.08           |
| Calculation factor $f_1$                | 1              |
| Calculation factor $f_{2A}$             | 1              |
| Calculation factor $f_{2B}$             | 1.01           |
| Calculation factor $f_{2C}$             | 1.03           |
| Calculation factor $f_{2D}$             | 1.05           |
| Calculation factor $f_{HC}$             | 1              |
| Calculation factor $f_0$                | 14.5           |
| Mass bearing                            | 0.62 kg        |