

## PDF technical sheet 6304LLUC3/5KU1



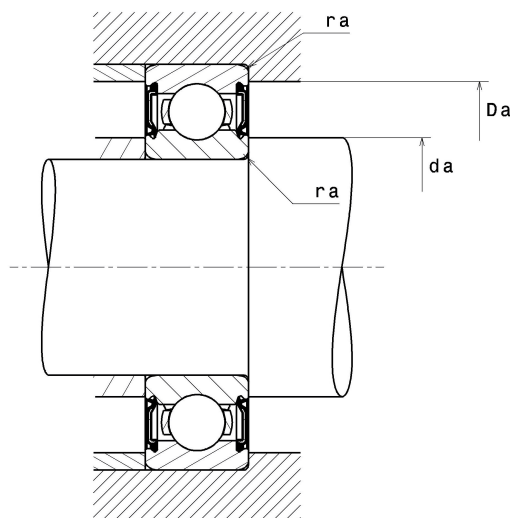
### Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

| Product definition     |          |
|------------------------|----------|
| d                      | 0.7874 " |
| D                      | 2.0472 " |
| B                      | 0.5906 " |
| rs min                 | 0.0433 " |
| Radial clearance class | C3       |
| Mass                   | 0.51 oz  |
| Brand                  | NTN      |



| Product performance                           |            |
|-----------------------------------------------|------------|
| Dynamic load, C                               | 15.90 kN   |
| Static load, C0                               | 7.90 kN    |
| Fatigue limit load, Cu                        | 0.36 kN    |
| f0                                            | 12.4       |
| Nlim (grease)                                 | 10,000 RPM |
| Min operating temperature, Tmin               | -13 °C     |
| Max operating temperature, Tmax               | 230 °C     |
| Characteristic cage frequency, FTF            | 0.37 Hz    |
| Characteristic rolling element frequency, BSF | 3.52 Hz    |
| Characteristic outer ring frequency, BPF0     | 2.57 Hz    |
| Characteristic inner ring frequency, BPF1     | 4.43 Hz    |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 1.0433 " |
| da max | 1.1220 " |
| Da max | 1.7913 " |
| ra max | 0.0394 " |

### Calculation factors

#### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| $\frac{f_0 F_a}{C_0}$ | e    | $F_a / F_r \leq e$ |   | $F_a / F_r > e$ |      |
|-----------------------|------|--------------------|---|-----------------|------|
|                       |      | X                  | Y | X               | Y    |
| 0.172                 | 0.19 | 1                  | 0 | 0.56            | 2.3  |
| 0.345                 | 0.22 |                    |   |                 | 1.99 |
| 0.689                 | 0.26 |                    |   |                 | 1.71 |
| 1.03                  | 0.28 |                    |   |                 | 1.55 |
| 1.38                  | 0.3  |                    |   |                 | 1.45 |
| 2.07                  | 0.34 |                    |   |                 | 1.31 |
| 3.45                  | 0.38 |                    |   |                 | 1.15 |
| 5.17                  | 0.42 |                    |   |                 | 1.04 |
| 6.89                  | 0.44 |                    |   |                 | 1    |

#### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 0.6   | 0.5   |

For single or DT bearing arrangement:

If  $P_0 < F_r$ , then use  $P_0 = F_r$