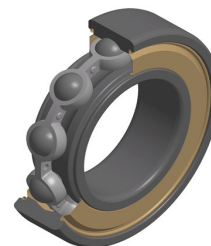


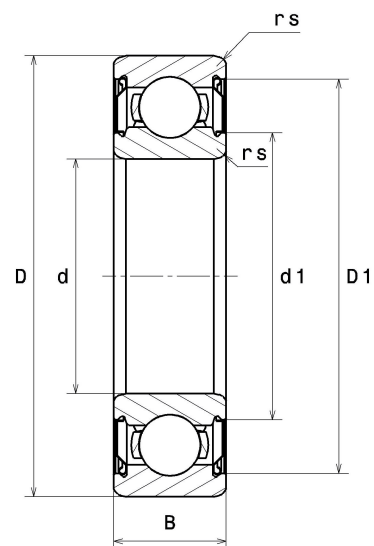
## PDF technical sheet R8ZZ/2AS



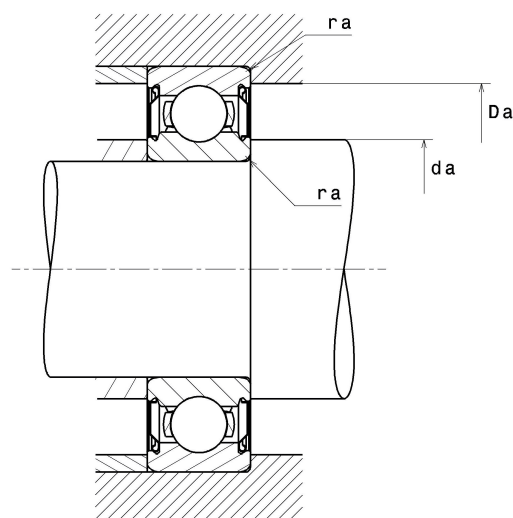
### Single row deep groove ball bearings

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

| Product definition     |          |
|------------------------|----------|
| d                      | 0.5000 " |
| D                      | 1.1250 " |
| B                      | 0.3125 " |
| rs min                 | 0.0157 " |
| Radial clearance class | CN       |
| Mass                   | 0.06 oz  |
| Brand                  | NTN      |



| Product performance             |            |
|---------------------------------|------------|
| Dynamic load, C                 | 5.10 kN    |
| Nlim (grease)                   | 26,000 RPM |
| Min operating temperature, Tmin | -4 °C      |
| Max operating temperature, Tmax | 248 °C     |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 0.6024 " |
| Da max | 1.0236 " |
| ra max | 0.0157 " |

### Calculation factors

#### Equivalent dynamic radial load

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

| $\frac{f_0 F_a}{C_0}$ | e    | Fa / Fr ≤ e |   | Fa / Fr > 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  $P_0 = F_r$