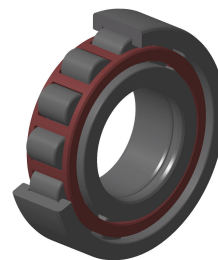


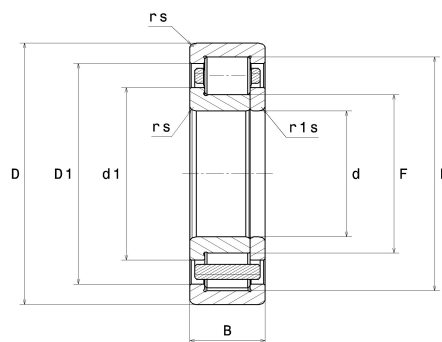
## PDF technical sheet NUP312ET2



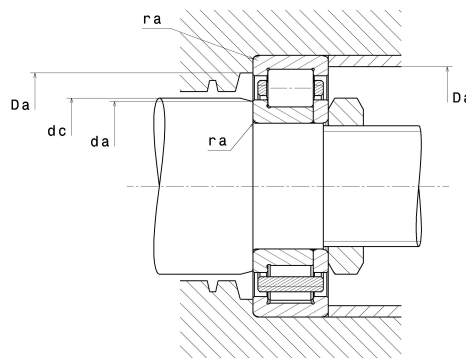
### Single row cylindrical roller bearings

Single row cylindrical roller bearing, locating, separable, polyamide cage

| Product definition     |          |
|------------------------|----------|
| d                      | 2.3622 " |
| D                      | 5.1181 " |
| B                      | 1.2205 " |
| E                      | 4.5276 " |
| F                      | 3.0315 " |
| d1                     | 3.3307 " |
| rs min                 | 0.0827 " |
| r1s min                | 0.0827 " |
| Radial clearance class | CN       |
| Mass (without HJ ring) | 6.60 oz  |
| Brand                  | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 150 kN    |
| Static load, C0                               | 157 kN    |
| Fatigue limit load, Cu                        | 19.10 kN  |
| Nlim (oil)                                    | 5,800 RPM |
| Nlim (grease)                                 | 4,900 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.40 Hz   |
| Characteristic rolling element frequency, BSF | 4.86 Hz   |
| Characteristic outer ring frequency, BPF0     | 5.21 Hz   |
| Characteristic inner ring frequency, BPF1     | 7.79 Hz   |



| Abutment dimensions |          |
|---------------------|----------|
| da min              | 2.7953 " |
| dc min              | 3.3858 " |
| Da max              | 4.6850 " |
| ra max              | 0.0787 " |

#### Calculation factors

Equivalent dynamic radial load

$$P = F_r$$

Equivalent static radial load

$$P_0 = F_r$$