

**BK0509** [↗](#)

Drawn cup needle roller bearing closed end

Drawn cup needle roller bearings with closed end BK, to DIN 618/ISO 3245

Technical information



Your current product variant

| | |
|------------------|---------|
| Lubricant | Without |
| Lubrication hole | Without |
| Coating | Without |
| Sealing | Without |

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|---------------------------------------|
| F_w | 5 mm | Under roller diameter |
| D | 9 mm | Outside diameter |
| C | 9 mm | Width, outer ring |
| C_r | 2.400 N | Basic dynamic load rating, radial |
| C_{0r} | 1.990 N | Basic static load rating, radial |
| C_{ur} | 243 N | Fatigue load limit, radial |
| n_G Grease | 23.500 1/min | Limiting speed for grease lubrication |
| n_G | 39.000 1/min | Limiting speed |
| n_{gr} | 36.500 1/min | Reference speed |
| $\approx m$ | 2,07 g | Weight |

Dimensions

| | | |
|------------|--------|--|
| r_{min} | 0,4 mm | Minimum chamfer dimension |
| C_{tmin} | 7,4 mm | Minimum width to base of drawn cup with closed end |



Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 140 °C | Operating temperature max. |

Characteristics

-  F_r Radial load
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Small design envelope