

**FAG****6210-2Z-L038** [🔗](#)

Deep groove ball bearing

Deep groove ball bearing 62...-2Z, single row, shields, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Type of Sealing                  | 2Z           | Non-contact shield on both sides        |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | SN           | Rings dimensional stabilized up to 120° |
| Lubricant                        | L038         | Grease (L038/customer specific)         |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 50 mm       | Bore diameter                     |
| D               | 90 mm       | Outside diameter                  |
| B               | 20 mm       | Width                             |
| C <sub>r</sub>  | 39.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 24.200 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.460 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 8.200 1/min | Reference speed                   |
| ≈m              | 460,6 g     | Weight                            |



Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a\ min}$ | 57 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 83 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1 mm  | Maximum fillet radius                |

Dimensions

|             |          |                              |
|-------------|----------|------------------------------|
| $r_{\ min}$ | 1,1 mm   | Minimum chamfer dimension    |
| $D_1$       | 77,92 mm | Shoulder diameter outer ring |
| $D_2$       | 80,04 mm | Caliber diameter outer ring  |
| $d_1$       | 62 mm    | Shoulder diameter inner ring |

Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -20 °C | Operating temperature min. |
| $T_{\ max}$ | 120 °C | Operating temperature max. |

Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 14,3 | Calculation factor |
|-------|------|--------------------|

Characteristics

|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|  | Radial load                                    |
|  | Axial load in one direction                    |
|  | Axial load in two directions                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication                             |
|  | Sealed on both sides                           |