

**FAG****54205**

Axial deep groove ball bearing

Axial deep groove ball bearing 542, double direction, with spherical housing washer, steel sheet metal cage

Technical information



Your current product variant

| | | |
|----------------------------------|----|---|
| Cage | JP | Steel sheet metal |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|----------------------------------|
| d | 20 mm | Inner diameter shaft washer |
| D | 47 mm | Outer diameter housing washer |
| T ₂ | 31,4 mm | Height |
| C _a | 26.500 N | Basic dynamic load rating, axial |
| C _{0a} | 50.000 N | Basic static load rating, axial |
| C _{ua} | 2.280 N | Fatigue load limit, axial |
| n _G | 7.500 1/min | Limiting speed |
| n _{gr} | 9.400 1/min | Reference speed |
| ≈m | 221 g | Weight |

Mounting dimensions

| | | |
|---------------------|--------|--------------------------------------|
| d _{a max} | 25 mm | Maximum diameter shaft shoulder |
| D _{a max} | 36 mm | Maximum diameter of housing shoulder |
| r _{a max} | 0,6 mm | Maximum filled radius |
| r _{a1 max} | 0,3 mm | Maximum filled radius |



Dimensions

| | | |
|--------------------|---------|---------------------------------|
| D ₁ | 27 mm | Inner diameter housing washer |
| B | 7 mm | Height shaft washer |
| r _{min} | 0,6 mm | Minimum chamfer dimension |
| r _{1 min} | 0,3 mm | Minimum chamfer dimension |
| R | 40 mm | Radius spherical housing washer |
| A | 16,5 mm | Distance of the center point |
| T ₃ | 36 mm | Height with seat washer |
| D ₂ | 36 mm | Bore diameter seat washer |
| D ₃ | 50 mm | Outside diameter seat washer |
| C | 5,5 mm | Height seat washer |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 150 °C | Operating temperature max. |

Calculation factors

| | | |
|---|-------|---------------------|
| A | 0,013 | Minimum load factor |
|---|-------|---------------------|

Additional information

| | |
|------|-------------|
| U205 | Seat washer |
|------|-------------|

Characteristics

| | |
|--|---------------------------------------|
| | Axial load in one direction |
| | Axial load in two directions |
| | Grease Lubrication |
| | Oil Lubrication |
| | Not sealed |
| | Static angular error and misalignment |