

**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	Tolerance class PN, acc. to DIN 620
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

## Main Dimensions &amp; Performance Data

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

## Mounting dimensions

d <sub>a max</sub>	25 mm	Maximum diameter shaft shoulder
D <sub>a max</sub>	36 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	0,6 mm	Maximum filled radius
r <sub>a1 max</sub>	0,3 mm	Maximum filled radius



### Dimensions

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

### Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	150 °C	Operating temperature max.

### Calculation factors

A	0,013	Minimum load factor
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### Additional information

U205	Seat washer
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### Characteristics

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