

**FAG****51205**

Axial deep groove ball bearing

Axial deep groove ball bearing 512, single direction, 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 &amp; Performance Data

d	25 mm	Inner diameter shaft washer
D	47 mm	Outer diameter housing washer
T	15 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>	9,800 1/min	Reference speed
≈m	120 g	Weight

## Mounting dimensions

d <sub>a min</sub>	38 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	34 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	0.6 mm	Maximum filled radius



### Dimensions

$r_{\min}$	0.6 mm	Minimum chamfer dimension
$D_1$	27 mm	Inner diameter housing washer
$d_1$	47 mm	Outer diameter shaft 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
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### Characteristics

-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed