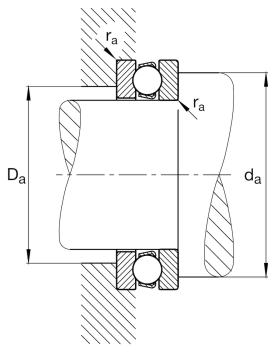
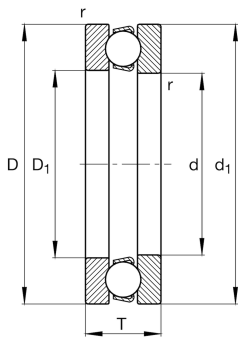


**FAG****51107** [↗](#)

Axial deep groove ball bearing

Axial deep groove ball bearing 511, 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 & Performance Data

d	35 mm	Inner diameter shaft washer
D	52 mm	Outer diameter housing washer
T	12 mm	Height
C _a	20.000 N	Basic dynamic load rating, axial
C _{0a}	46.500 N	Basic static load rating, axial
C _{ua}	2.120 N	Fatigue load limit, axial
n _G	8.800 1/min	Limiting speed
n _{gr}	6.800 1/min	Reference speed
m	89 g	Weight

Mounting dimensions

d _{a min}	45 mm	Minimum diameter shaft shoulder
D _{a max}	42 mm	Maximum diameter of housing shoulder
r _{a max}	0,6 mm	Maximum filled radius



Dimensions

r _{min}	0,6 mm	Minimum chamfer dimension
D ₁	37 mm	Inner diameter housing washer
d ₁	52 mm	Outer diameter shaft washer

Temperature range

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

Calculation factors

A	0,011	Minimum load factor
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Characteristics

	Axial load in one direction
	Grease Lubrication
	Oil Lubrication
	Not sealed