

**FAG****51107**

Axial deep groove ball bearing

Schaeffler ID:  
0167146950000Axial deep groove ball bearing 511, single  
direction, steel sheet metal cage

## Technical information

**Main Dimensions & Performance Data**

d	35 mm	Bore diameter
D	52 mm	Outside diameter
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
	89 g	Weight

**Dimensions**

$r_{min}$	0.6 mm	Minimum chamfer dimension
$D_1$	37 mm	Bore diameter housing washer
$d_1$	52 mm	Lip diameter shaft washer

**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 recess radius

**Additional information**

A	0.011	Minimum load factor
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**Temperature range**

$T_{min}$	-30 °C	Operating temperature min.
$T_{max}$	150 °C	Operating temperature max.