

**FAG****51208**

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 & Performance Data

d	40 mm	Inner diameter shaft washer
D	68 mm	Outer diameter housing washer
T	19 mm	Height
C_a	44,000 N	Basic dynamic load rating, axial
C_{0a}	97,000 N	Basic static load rating, axial
C_{ua}	4,400 N	Fatigue load limit, axial
n_G	5,500 1/min	Limiting speed
n_{gr}	6,900 1/min	Reference speed
m	0.268 kg	Weight

Mounting dimensions

$d_{a \min}$	57 mm	Minimum diameter shaft shoulder
$D_{a \max}$	51 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum fillet radius



Dimensions

r_{\min}	1 mm	Minimum chamfer dimension
D_1	42 mm	Inner diameter housing washer
d_1	68 mm	Outer diameter shaft washer

Temperature range

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

Calculation factors

A	0.05	Minimum load factor
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Characteristics

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