

**FAG****687>N**

Deep groove ball bearing

Deep groove ball bearing 68..., single row,
steel sheet metal cage

Technical information



Your current product variant

Version code	>N	Not marked on bearing
Type of Seal	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	7 mm	Bore diameter
D	14 mm	Outside diameter
B	3,5 mm	Width
C _r	1.250 N	Basic dynamic load rating, radial
C _{0r}	510 N	Basic static load rating, radial
C _{ur}	31,5 N	Fatigue load limit, radial
n _G	68.000 1/min	Limiting speed
n _{gr}	32.500 1/min	Reference speed
≈m	2,03 g	Weight



Mounting dimensions

$d_{a \min}$	7,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	13,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,15 mm	Maximum fillet radius

Dimensions

r_{\min}	0,15 mm	Minimum chamfer dimension
D_1	12 mm	Shoulder diameter outer ring
d_1	9 mm	Shoulder diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Calculation factors

f_0	14,2	Calculation factor
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Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed