

**FAG****683-2Z>N**

Deep groove ball bearing

Deep groove ball bearing 68...2Z, single row, shields, steel sheet metal cage

Technical information



Your current product variant

Version code	>N	Not marked on bearing
Sealing	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Lubricating grease	
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	3 mm	Bore diameter
D	7 mm	Outside diameter
B	3 mm	Width
C _r	206 N	Basic dynamic load rating, radial
C _{0r}	52 N	Basic static load rating, radial
C _{ur}	2,7 N	Fatigue load limit, radial
n _G	103.000 1/min	Limiting speed
n _{gr}	73.000 1/min	Reference speed
m	1 g	Weight



Mounting dimensions

$d_{a \min}$	3,6 mm	Minimum diameter shaft shoulder
$D_{a \max}$	6,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,1 mm	Maximum fillet radius

Dimensions

r_{\min}	0,1 mm	Minimum chamfer dimension
D_1	5,75 mm	Shoulder diameter outer ring
D_2	6,1 mm	Caliber diameter outer ring
d_1	4,25 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	6,5	Calculation factor
-------	-----	--------------------

Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides