

**FAG****687-2Z>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	7 mm	Bore diameter
D	14 mm	Outside diameter
B	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	58.000 1/min	Limiting speed
n _{gr}	40.000 1/min	Reference speed
m	3 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_2	12,8 mm	Caliber 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
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides