

**FAG****688>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
Sealing	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 &amp; Performance Data

d	8 mm	Bore diameter
D	16 mm	Outside diameter
B	4 mm	Width
$C_r$	1.710 N	Basic dynamic load rating, radial
$C_{0r}$	710 N	Basic static load rating, radial
$C_{ur}$	44 N	Fatigue load limit, radial
$n_G$	60.000 1/min	Limiting speed
$n_{gr}$	30.000 1/min	Reference speed
$m$	3,8 g	Weight



### Mounting dimensions

$d_{a \min}$	9,4 mm	Minimum diameter shaft shoulder
$D_{a \max}$	14,6 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,2 mm	Maximum fillet radius

### Dimensions

$r_{\min}$	0,2 mm	Minimum chamfer dimension
$D_1$	13,8 mm	Shoulder diameter outer ring
$d_1$	10,2 mm	Shoulder diameter inner ring

### Temperature range

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

### Calculation factors

$f_0$	13,9	Calculation factor
-------	------	--------------------

### Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed