

**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 &amp; Performance Data

d	7 mm	Bore diameter
D	14 mm	Outside diameter
B	5 mm	Width
C <sub>r</sub>	1.250 N	Basic dynamic load rating, radial
C <sub>0r</sub>	510 N	Basic static load rating, radial
C <sub>ur</sub>	31,5 N	Fatigue load limit, radial
n <sub>G</sub>	58.000 1/min	Limiting speed
n <sub>gr</sub>	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