

**FAG****61816-2RSR**

Deep groove ball bearing

Deep groove ball bearing 618..-2RSR, single row, seals, steel sheet metal cage

## Technical information



## Your current product variant

Sealing	2RSR	Contact seal on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Lubricant	GA13	Ball bearing and insert bearing grease
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

## Main Dimensions &amp; Performance Data

d	80 mm	Bore diameter
D	100 mm	Outside diameter
B	10 mm	Width
C <sub>r</sub>	13.800 N	Basic dynamic load rating, radial
C <sub>0r</sub>	13.800 N	Basic static load rating, radial
C <sub>ur</sub>	930 N	Fatigue load limit, radial
n <sub>G</sub>	3.100 1/min	Limiting speed
m	0,157 kg	Weight

## Mounting dimensions

d <sub>a min</sub>	83,2 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	96,8 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	0,6 mm	Maximum fillet radius



### Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$D_1$	93,57 mm	Shoulder diameter outer ring
$D_2$	95,5 mm	Caliber diameter outer ring
$d_1$	86,6 mm	Shoulder diameter inner ring

### Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

### Calculation factors

$f_0$	16	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