

**FAG****6009-2RSR**

Deep groove ball bearing

Deep groove ball bearing 60..-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	SN	Rings dimensional stabilized up to 120°
Lubricant	GA13	Ball bearing and insert bearing grease
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
C <sub>r</sub>	21,200 N	Basic dynamic load rating, radial
C <sub>0r</sub>	14,400 N	Basic static load rating, radial
C <sub>ur</sub>	750 N	Fatigue load limit, radial
n <sub>G</sub>	4,950 1/min	Limiting speed
m	0.24 kg	Weight

**Mounting dimensions**

d <sub>a min</sub>	49.6 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	70.4 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	1 mm	Maximum fillet radius



## Dimensions

$r_{\min}$	1 mm	Minimum chamfer dimension
$D_1$	65.6 mm	Shoulder diameter outer ring
$D_2$	67.98 mm	Caliber diameter outer ring
$d_1$	54.2 mm	Shoulder diameter inner ring

## Temperature range

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

## Calculation factors

$f_0$	15.3	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