



HK 0509

- Popular item

Drawn cup needle roller bearings

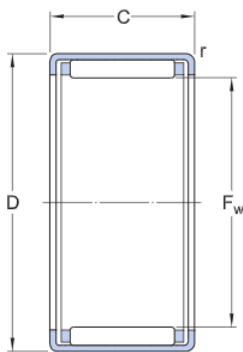
Bearing data

[Tolerances,](#)
table

Design considerations

[Shaft and housing tolerances,](#)
table

Technical specification



DIMENSIONS

F_w	5 mm	Diameter under rollers
D	9 mm	Outside diameter
C	9 mm	Width
r	min.0.4 mm	Chamfer dimension drawn cup (outer ring)

CALCULATION DATA

Basic dynamic load rating	C	2.38 kN
Basic static load rating	C_0	2.08 kN
Fatigue load limit	P_u	0.22 kN
Reference speed		22 000 r/min
Limiting speed		24 000 r/min

MASS

Mass bearing	0.002 kg
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ASSOCIATED PRODUCTS

Radial shaft seal with a low cross-sectional height, single lip

G 5x9x2
S

More information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
Bearing data	General bearing knowledge	Bearing Select
Loads	Bearing selection process	Engineering Calculator
Temperature limits	Bearing failure and how to prevent it	LubeSelect for SKF greases
Permissible speed		Heater Selection Tool
Design considerations		skf.com/mount
Mounting		
Designation system		

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