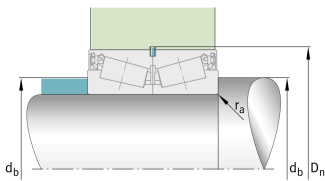


**FAG****JK0S050**

## Tapered roller bearing

Tapered roller bearings JK0S, integral tapered roller bearings, lip seal on one side, diameter series 0

## Technical information



## Your current product variant

Tolerance class	PN	Normal (ISO 492:2014)
Heat treatment	Standard	
Cage	TVP	Cage made of glass-fiber reinforced plastic, window cage
Number of rows	1	Single-row design

## Main Dimensions &amp; Performance Data

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	22 mm	Width, inner ring
C	21,5 mm	Width, outer ring
$C_r$	64.000 N	Basic dynamic load rating, radial
$C_{0r}$	93.000 N	Basic static load rating, radial
$C_{ur}$	11.400 N	Fatigue load limit, radial
$n_G$	4.050 1/min	Limiting speed
$F_{BR}$	31.400 N	Load carrying capacity of snap ring connection
	12.800 N	Maximum axial clamping force
$\approx m$	0,384 kg	Weight



### Mounting dimensions

$d_{a \max}$	56 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	56 mm	Minimum diameter of shaft shoulder
$r_{a \max}$	1 mm	Maximum fillet radius of shaft
$D_n$	81,8 mm	Groove diameter at housing
$\Delta D_n$	0,22 mm	Upper limit deviation

### Dimensions

$r_{1,2 \min}$	1 mm	Minimum chamfer dimension of inner ring back face
$D_1$	75,7 mm	Diameter of groove
$m/2$	1 mm	Width of groove
$a$	19 mm	Distance between the apexes of the pressure cones
$d_1$	66,4 mm	Guidance rib diameter of inner ring
$u$	0,02 mm	Stand out inner to outer ring
$\Delta u$	0,05 mm	Upper limit deviation

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	110 °C	Operating temperature max.

### Calculation factors

$e$	0,42	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y$	1,43	Dynamic axial load factor
$Y_0$	0,79	Static axial load factor

### Additional information

BR80

Snap ring



### Characteristics

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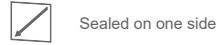
Radial load



Axial load in one direction



Grease Lubrication



Sealed on one side