

FAG

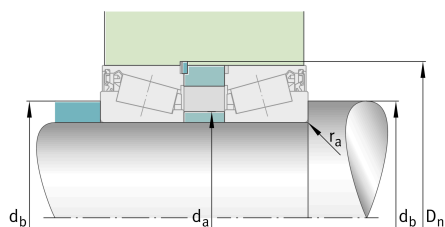
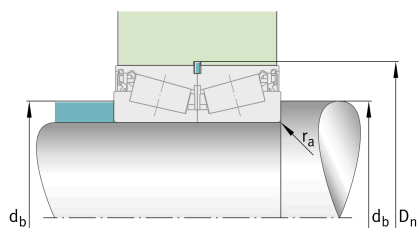
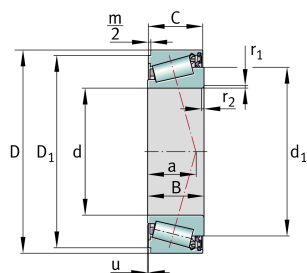
## JK0S050

Tapered roller bearing

Schaeffler ID:  
0167315900000

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

## Technical information



## 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
	0.384 kg	Weight

## 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
u	0.02 mm	Stand out inner to outer ring
$\Delta_u$	0.05 mm	Upper limit deviation
$\Delta_u$	0 mm	Lower limit deviation

## 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
$\Delta_{Dn}$	0.22 mm	Upper limit deviation
$\Delta_{Dn}$	0 mm	Lower limit deviation

**Calculation factors**

e	0.42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
	BR80	Snap ring
Y	1.43	Dynamic axial load factor
Y <sub>0</sub>	0.79	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	110 °C	Operating temperature max.