

**FAG****B7001-E-2RSD-T-P4S-UL**

## Spindle bearing

Spindle bearing B70..-E-2RSD, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , lip seals on both sides, non-contact, restricted tolerances

## Technical information



## Your current product variant

Preload class	L	Preload light
Contact angle	E	Contact angle 25°
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing
Lubricant	GA21	Grease for super precision bearings, standard

## Main Dimensions &amp; Performance Data

d	12 mm	Bore diameter
D	28 mm	Outside diameter
B	8 mm	Width
$C_r$	4.450 N	Basic dynamic load rating, radial
$C_{0r}$	1.750 N	Basic static load rating, radial
$C_{ur}$	185 N	Fatigue load limit, radial
$n_G$ Grease	53.000 1/min	Limiting speed for grease lubrication
$\approx m$	20 g	Weight



### Mounting dimensions

$d_a$	16,5 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	24,5 mm	Shoulder diameter outer ring
$D_a$	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	0,3 mm	Maximum recess radius
$r_{a1 \max}$	0,1 mm	Maximum recess radius
$a$	8,7 mm	Distance between the apexes of the pressure cones

### Dimensions

$r_{\min}$	0,3 mm	Minimum chamfer dimension
$r_{1 \min}$	0,3 mm	Minimum chamfer dimension
$\alpha$	25 °	Contact angle

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	80 °C	Operating temperature max.

### Additional information

$F_{VL}$	23 N	Preload force light
$F_{VM}$	109 N	Preload force medium
$F_{VH}$	248 N	Preload force heavy
$K_{aEL}$	66 N	Lift-off force light
$K_{aEM}$	328 N	Lift-off force medium
$K_{aEH}$	775 N	Lift-off force heavy
$c_{aL}$	32 N/μm	Axial rigidity light
$c_{aM}$	57 N/μm	Axial rigidity medium
$c_{aH}$	80 N/μm	Axial rigidity heavy



### Characteristics

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Radial load



Axial load in one direction



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides