



FAG

1305-TVH

Self-aligning ball bearing

Schaeffler ID:
0167006780000Self-aligning ball bearing 13..-TVH, plastic
cage

Technical information

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
r_{\min}	1.1 mm	Minimum chamfer dimension
C_r	18,300 N	Basic dynamic load rating, radial
C_{0r}	5,000 N	Basic static load rating, radial
C_{ur}	320 N	Fatigue load limit, radial
n_G	12,900 1/min	Limiting speed
n_{gr}	10,000 1/min	Reference speed
	0.251 kg	Weight

Dimensions

D_1	50.4 mm	Shoulder diameter outer ring
d_1	38.1 mm	Shoulder diameter inner ring

Mounting dimensions

$d_{a\min}$	32 mm	Minimum diameter shaft shoulder
$D_{a\max}$	55 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1 mm	Maximum fillet radius

Calculation factors

e	0.28	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.29	Dynamic axial load factor
Y_2	3.54	Dynamic axial load factor
Y_0	2.4	Static axial load factor

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.