



FAG

**1209-TVH**

Self-aligning ball bearing

Schaeffler ID:  
0167003680000Self-aligning ball bearing 12..-TVH, plastic  
cage

## Technical information

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
$r_{\min}$	1.1 mm	Minimum chamfer dimension
$C_r$	22,000 N	Basic dynamic load rating, radial
$C_{0r}$	7,300 N	Basic static load rating, radial
$C_{ur}$	465 N	Fatigue load limit, radial
$n_G$	9,300 1/min	Limiting speed
$n_{gr}$	8,200 1/min	Reference speed
	0.461 kg	Weight

**Dimensions**

$D_1$	72.1 mm	Shoulder diameter outer ring
$d_1$	57.7 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a\min}$	52 mm	Minimum diameter shaft shoulder
$D_{a\max}$	78 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1 mm	Maximum fillet radius

**Calculation factors**

e	0.21	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3.03	Dynamic axial load factor
$Y_2$	4.68	Dynamic axial load factor
$Y_0$	3.17	Static axial load factor

**Temperature range**

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