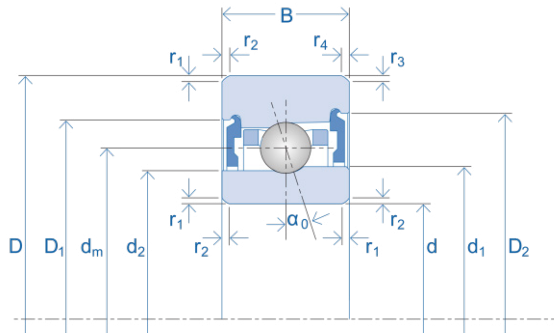


Part Number	KH 61909 C TA
Bearing Size	61909

Bearing Series	KH
Hybrid (Si ₃ N ₄ Balls)	No

Bearing Dimensions

Bore Diameter	d [mm]	45
Outer Diameter	D [mm]	68
Bearing Width	B [mm]	12
Pitch Circle	dm [mm]	56.5
Ball Diameter	Dw [mm]	4.762
OD Inner Ring	d ₁ [mm]	52.3
OD Inner Ring (Open Side)	d ₂ [mm]	50.8
ID Outer Ring	D ₁ [mm]	60.7
ID Outer Ring (Open Side)	D ₂ [mm]	62.2
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.3

Geometrical Data

Number of Balls	Z [Qty.]	28
Contact Angle	α ₀ [°]	17
Bearing Weight	m [kg]	0.128

Mating Part Dimensions

Abutment Diameter Inner Ring	d _{a,b} min. [mm]	50.0
Abutment Diameter Outer Ring	D _{a,b} max. [mm]	63.5
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.15

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	7,300
Static Radial Load Rating Steel Balls	C ₀ [N]	5,150
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	3,600

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	38,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	28,500

Bearing Preload Data

Light Pre-Load	F _v [N]	35
Light Axial Rigidity	C _{ax} [N/μm]	40
Medium Pre-Load	F _v [N]	110
Medium Axial Rigidity	C _{ax} [N/μm]	61
Heavy Pre-Load	F _v [N]	220
Heavy Axial Rigidity	C _{ax} [N/μm]	81
Minimum Spring Pre-Load	F _r [N]	265

Notes:

1. Position of the oiling Nozzle (dT) for bearings with TA cage/ TXM cage upon request
2. The stated load and speed values are given for a spring preloaded single bearing with oil/air or oil mist lubrication. If specific applications differ, please consult correction factors and/or GMN USA engineers.