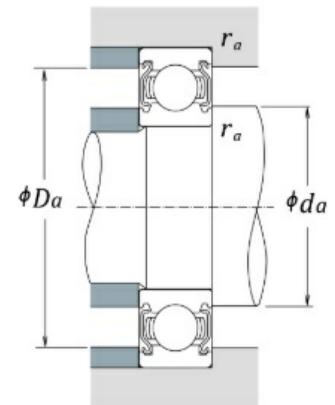
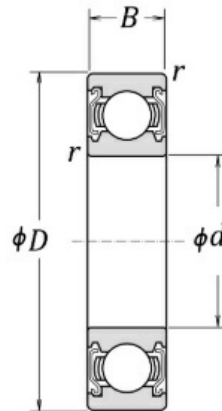


6808zz

Deep groove ball bearings, single row, shields



Technical sheet of 6808zz

What are the Benefits of choosing 6808zz bearings?

- **Versatile Load Bearing:** Capable of simultaneously withstanding radial and bidirectional axial loads, suitable for high-speed and ultra-high-speed applications.
- **Low Friction and Long Life:** Optimized contact between the raceway and steel balls results in an extremely low coefficient of friction, minimal heat generation, and a long service life.
- **High Speed Capability:** Due to high operational precision, it allows for very high maximum speeds.
- **Low Maintenance Costs:** Can be designed with dust covers or sealing rings for lifetime lubrication, requiring no routine maintenance.
- **Rigid and Quiet Operation:** Provides a certain level of rotational stiffness while maintaining low operating noise and vibration levels.

Type :	Single row deep groove ball bearings	
Model :	6808zz	
Main demensions :	40 mm × 52 mm × 7 mm	Bore Dia × Outside Dia × Width Dia
M kg:	0.031	Mass
HS Code :	8482102000	Bearing customs code
d mm:	40	inner ring diameter

D mm:	52	Outer ring diameter
B(T) mm:	7	Overall Width
Cr kN:	6.901	Radial dynamic load rating
C_{0r} kN:	5.426	Radial static load rating
Grease r/min:	11918	Reference speed

Detailed parameters and installation dimensions:

Part Number	6808zz
Seal	ZZ = shields on both sides
Series	6800 metric, ultra-thin section series (68..ZZ)
Dimension Chamfer - r min	0.3 mm 0.0118 inch
Radial clearance	CN
Radial Dynamic Capacity - C _r	6901 N 1551 lbf
Radial Static Capacity - C _{0r}	5426 N 1219 lbf
Bore	Cylindrical
Units	Metric
Speed ratings (grease) - n _B	11918 min ⁻¹
Equivalent	6808-ZZ
Load	radial
Rows NO.	One
Number of Balls - z	21
Ball Diameter - D _w	3.969 mm 0.1563 inch
Abutment Dimensions Shaft - d _a min	42 mm 1.6535 inch
Abutment Dimensions Shaft - d _a max	42 mm 1.6535 inch
Abutment Dimensions Housing - D _a max	50 mm 1.9685 inch
Cage	Pressed Steel Cages
Temperature - T(min)	-10 °C
Temperature - T(max)	110 °C
Interchangeable	NSK 6808zz
Dimension Inside - d φ	40 mm 1.5748 inch
Dimension Outside - D Φ	52 mm 2.0472 inch
Dimension Width - B	7 mm 0.2756 inch
Tolerance class	P0 (ABEC-1)
Ball Material	GCr15SiMn
Fillet Radius - r _a max	0.3 mm 0.0118 inch
Factor - f ₀	17
Bearing Type	Deep groove ball bearings, single row, shields
Bearing Mass - m	0.031 kg 0.0683 lb
Manufacturer Part Code	6808-ZZ
Ring Material	GCr15SiMn

What are the applications of the 6808zz bearing?

- **Motors/Electrical Appliances:** Used in motors and home appliances. Ensures smooth high-speed operation and low noise.
- **Automotive Industry:** Used in generators and gearboxes. Suitable for medium loads and offers high reliability.
- **General Machinery:** Used in pumps, fans, and speed reducers. Low friction, maintenance-free, and long service life.

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