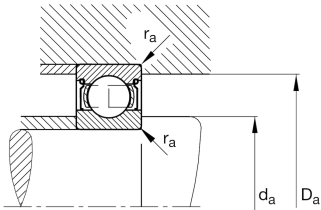
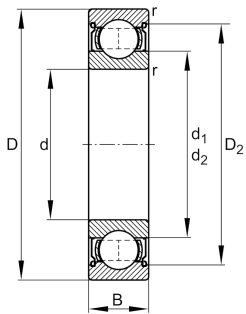


**FAG****6308-2Z-L138** [🔗](#)

Deep groove ball bearing

Deep groove ball bearing 63...-2Z, single row, shields, steel sheet metal cage

Technical information



Your current product variant

Type of Seal	2Z	Non-contact shield on both sides
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	L138	Grease (L138/customer specific)
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
C _r	45.500 N	Basic dynamic load rating, radial
C _{0r}	25.000 N	Basic static load rating, radial
C _{ur}	1.690 N	Fatigue load limit, radial
n _G	9.100 1/min	Limiting speed
n _{gr}	9.000 1/min	Reference speed
≈m	0,636 kg	Weight



Mounting dimensions

$d_{a\ min}$	49 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	81 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1,5 mm	Maximum fillet radius

Dimensions

$r_{\ min}$	1,5 mm	Minimum chamfer dimension
D_1	74,64 mm	Shoulder diameter outer ring
D_2	76,5 mm	Caliber diameter outer ring
d_1	55,55 mm	Shoulder diameter inner ring

Temperature range

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

Calculation factors

f_0	13	Calculation factor
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Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Lifetime lubrication, freedom from maintenance
	Grease Lubrication
	Sealed on both sides