

**FAG****6300-B-2DRS-L278**

Deep groove ball bearing

Deep groove ball bearing 63...-B-2DRS, single row, seals, steel sheet metal cage

Technical information

**Your current product variant**

Changed internal design	B	Design variant B
Sealing	2DRS	Contact seal 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	L278	Grease (L278/customer specific)
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	10 mm	Bore diameter
D	35 mm	Outside diameter
B	11 mm	Width
C_r	8.600 N	Basic dynamic load rating, radial
C_{0r}	3.450 N	Basic static load rating, radial
C_{ur}	315 N	Fatigue load limit, radial
n_G	16.000 1/min	Limiting speed
$\approx m$	53,9 g	Weight



Mounting dimensions

$d_{a \min}$	14,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	30,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	0,6 mm	Maximum fillet radius

Dimensions

r_{\min}	0,6 mm	Minimum chamfer dimension
D_1	26,83 mm	Shoulder diameter outer ring
D_2	29,03 mm	Caliber diameter outer ring
d_1	18,17 mm	Shoulder diameter inner ring
d_2	16,86 mm	Caliber diameter inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	100 °C	Operating temperature max.

Calculation factors

f_0	11,3	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