



Brand of NTN corporation

Technical data

6302FT150ZZ

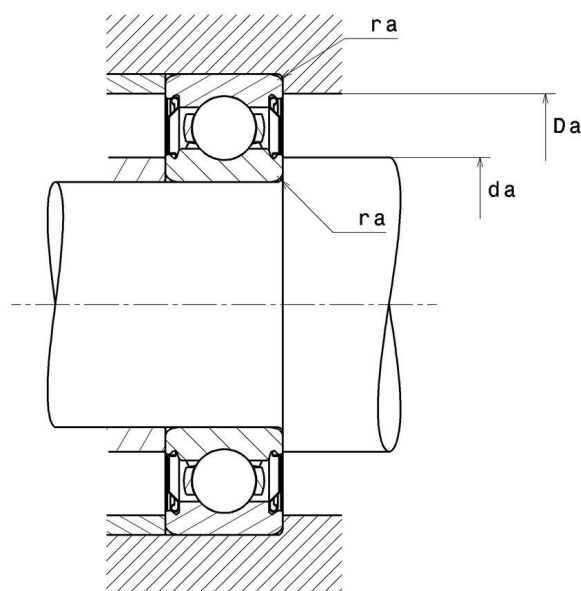
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications up to 150°C.

TOPLINE

VISUAL (S)

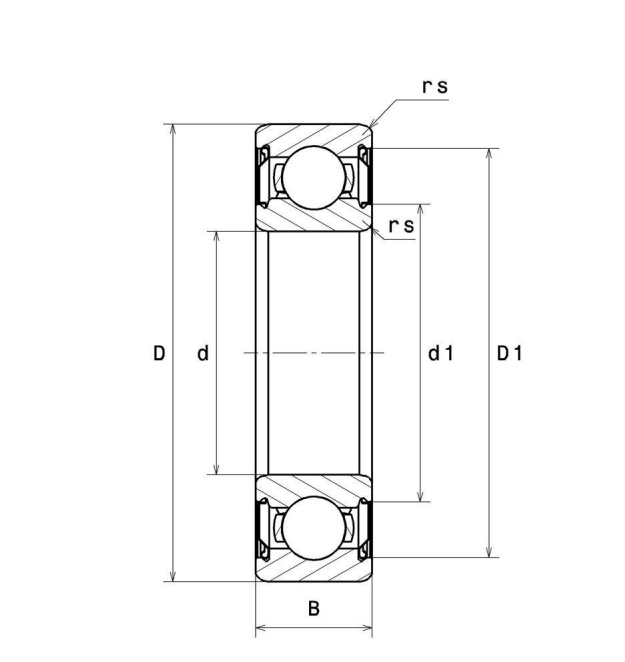


NTN Europe

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

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Single row deep groove ball bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	15 mm
D - External diameter	42 mm
B - Bearing/Inner ring width	13 mm
d1 - External diameter inner ring	23,2 mm
D1 - Inner diameter outer ring	36,1 mm
rs - Min fillet radius	1 mm
Radial clearance class	C3
Mass	0,083 kg

PRODUCT PERFORMANCE

C - Dynamic load	11900000 mN
C0 - Static load	5300000 mN
Cu - Fatigue limit load	240000 mN



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PRODUCT PERFORMANCE

f0 - Coefficient	12.1
N lim - Mechanical Limit Speed	102000 %/s
Tmin - Min operating temperature	243,15 °K
Tmax - Max operating temperature	423,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	2.525 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.475 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.312 Hz
BRF - Rotational frequency - rolling element (60 rpm)	1.656 Hz
FTF - Rotational frequency - cage (60 rpm)	0.361 Hz

ABUTMENT

da min - Min shoulder diameter IR	20 mm
da max - Max shoulder diameter IR	23,2 mm
Da max - Max shoulder diameter OR	37 mm
ra max - Max shaft & housing fillet radius	1 mm



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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

$$Po = X_0.Fr + Y_0.Fa$$

X ₀	Y ₀
0.6	0.5

For single or DT bearing arrangement :

If Po ≤Fr, then use Po = Fr