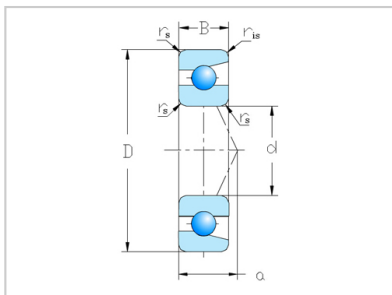


Single Row Angular Contact Ball Bearings

7300 Series-7302DT,7302DF,7302DB,7302A



Bearing Numbers

Single row	7302A
DB	7302DB
DF	7302DF
DT	7302DT

Principal dimensions(mm)

d	15
D	42
B	13
r(min)	1
r1(min)	0.6

Basic load ratings(N)

Cr	13400
Cor	7100

Basic load ratings(kgf)

Cr	1370
Cor	720

Value

fo	13
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Limiting Speed (rpm)

Grease	16000
Oil	22000

Distance of action point(mm)

a	14.7
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Abutment and fillet dimensions

da(min)	21
Da(max)	36
ra(max)	1

Weight

(kg)	0.084
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Basic load ratings(duplex bearing) (N)

Cr	21800
Cor	14200

Basic load ratings(duplex bearing) (kgf)

Cr	2220
Cor	1440

Limiting Speed(duplex bearing) (rpm)

Grease	13000
Oil	17000

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	29.5
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face-to-face arrangement	3.5
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Installation dimensions(duplex bearing)

db(min)	20
Db(max)	37
rb(max)	0.6

Angular contact ball bearings have inner and outer ring raceways that are displaced relative to each other in the direction of the bearing axis. This means that these bearings are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads.

The axial load carrying capacity of angular contact ball bearings increases as the contact angle increases. The contact angle is defined as the angle between the line joining the points of contact of the ball and the raceways in the radial plane, along which the combined load is transmitted from one raceway to another, and a line perpendicular to the bearing axis

The most commonly used designs are:

single row angular contact ball bearings

double row angular contact ball bearings

four-point contact ball bearings

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