

## Single Row Angular Contact Ball Bearings

7900 Series-7902DT,7902DF,7902DB,7902A5



## Bearing Numbers

Single row	<b>7902A5</b>
DB	<b>7902DB</b>
DF	<b>7902DF</b>
DT	<b>7902DT</b>

## Principal dimensions(mm)

d	15
D	28
B	<b>7</b>
r(min)	0.3
r1(min)	0.15

## Basic load ratings(N)

Cr	4550
Cor	2530

## Basic load ratings(kgf)

Cr	465
Cor	258

## Value

f <sub>0</sub>	14.8
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## Limiting Speed (rpm)

Grease	32000
Oil	43000

## Distance of action point(mm)

a	8.5
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## Abutment and fillet dimensions

d <sub>a</sub> (min)	17.5
D <sub>a</sub> (max)	25.5
r <sub>a</sub> (max)	0.3

## Weight

(kg)	0.015
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## Basic load ratings(duplex bearing) (N)

Cr	7400
Cor	5050

## Basic load ratings(duplex bearing) (kgf)

Cr	755
Cor	515

## Limiting Speed(duplex bearing) (rpm)

Grease	26000
Oil	34000

Distance of action point (duplex bearing)(a<sub>0</sub>)

back-to-back arrangement	17
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face-to-face arrangement	3
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## Installation dimensions(duplex bearing)

db(min)	-
Db(max)	26.8
rb(max)	0.15

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

Luoyang Auto Bearing Co.,Ltd-Tel:0598-3607100-Email:moore@lyautobearing.com-http://www.auto-bearing.com