

Single Row Angular Contact Ball Bearings

7200 Series-7204DT,7204DF,7204DB,7204B



Bearing Numbers

Single row	7204B
DB	7204DB
DF	7204DF
DT	7204DT

Principal dimensions(mm)

d	20
D	47
B	14
r(min)	1
r1(min)	0.6

Basic load ratings(N)

Cr	13300
Cor	7650

Basic load ratings(kgf)

Cr	1360
Cor	780

Value

fo	14.4
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Limiting Speed (rpm)

Grease	12000
Oil	16000

Distance of action point(mm)

a	21.1
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Abutment and fillet dimensions

da(min)	26
Da(max)	41
ra(max)	1

Weight

(kg)	0.109
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Basic load ratings(duplex bearing) (N)

Cr	21600
Cor	15300

Basic load ratings(duplex bearing) (kgf)

Cr	2210
Cor	1560

Limiting Speed(duplex bearing) (rpm)

Grease	9500
Oil	13000

Distance of action point (duplex bearing)(a0)

back-to-back	42.1
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arrangement

face-to-face	14.1
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arrangement

Installation dimensions(duplex bearing)

db(min)	25
Db(max)	42
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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