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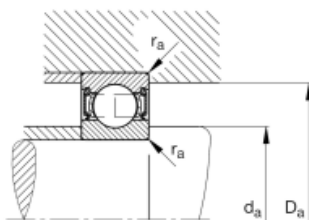
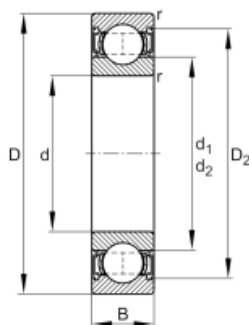
6300-2RSR

Deep groove ball bearing

Schaeffler ID:
0167225070000

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

Technical information



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}	179 N	Fatigue load limit, radial
n_G	14,800 1/min	Limiting speed
	54 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_2	29.5 mm	Caliber diameter outer ring
d_1	19.4 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

Calculation factors

f_0	11.3	Calculation factor
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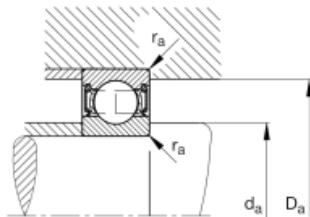
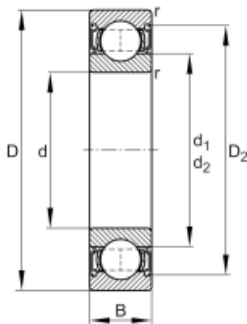
6301-2RSR

Deep groove ball bearing

Schaeffler ID:
0167226550000

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

Technical information



Main Dimensions & Performance Data

d	12 mm	Bore diameter
D	37 mm	Outside diameter
B	12 mm	Width
C _r	10,300 N	Basic dynamic load rating, radial
C _{0r}	4,200 N	Basic static load rating, radial
C _{ur}	290 N	Fatigue load limit, radial
n _G	13,700 1/min	Limiting speed
	59.8 g	Weight

Mounting dimensions

d _{a min}	17.6 mm	Minimum diameter shaft shoulder
D _{a max}	31.4 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius

Dimensions

r _{min}	1 mm	Minimum chamfer dimension
D ₂	31.36 mm	Caliber diameter outer ring
d ₁	19.5 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	11.1	Calculation factor
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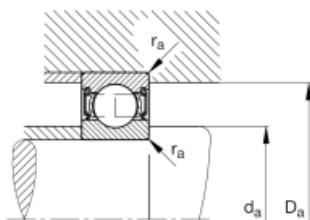
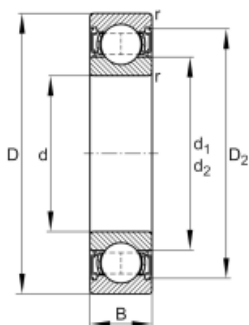
6302-2RSR

Deep groove ball bearing

Schaeffler ID:
0167227010000

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

Technical information



Main Dimensions & Performance Data

d	15 mm	Bore diameter
D	42 mm	Outside diameter
B	13 mm	Width
C _r	12,000 N	Basic dynamic load rating, radial
C _{0r}	5,300 N	Basic static load rating, radial
C _{ur}	360 N	Fatigue load limit, radial
n _G	11,300 1/min	Limiting speed
	85.5 g	Weight

Mounting dimensions

d _{a min}	20.6 mm	Minimum diameter shaft shoulder
D _{a max}	36.4 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius

Dimensions

r _{min}	1 mm	Minimum chamfer dimension
D ₂	34.95 mm	Caliber diameter outer ring
d ₁	23.6 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	12	Calculation factor
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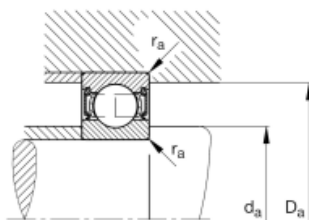
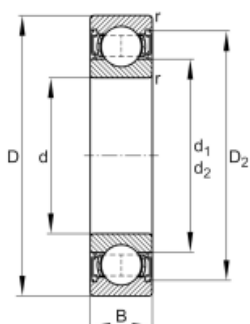
6303-2RSR

Deep groove ball bearing

Schaeffler ID:
0167227950000

Deep groove ball bearing 63...2RSR,
single row, seals, steel sheet metal cage

Technical information



Main Dimensions & Performance Data

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
C _r	14,400 N	Basic dynamic load rating, radial
C _{0r}	6,500 N	Basic static load rating, radial
C _{ur}	435 N	Fatigue load limit, radial
n _G	10,200 1/min	Limiting speed
	112 g	Weight

Mounting dimensions

d _{a min}	22.6 mm	Minimum diameter shaft shoulder
D _{a max}	41.4 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius

Dimensions

r _{min}	1 mm	Minimum chamfer dimension
D ₂	39.28 mm	Caliber diameter outer ring
d ₁	26.2 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	12.2	Calculation factor
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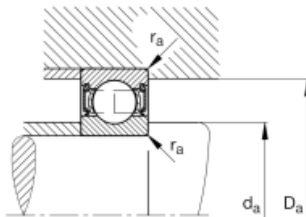
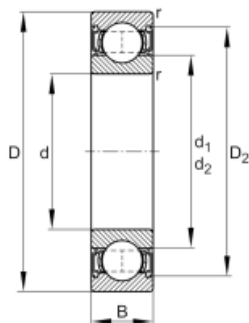
6304-2RSR

Deep groove ball bearing

Schaeffler ID:
0167228500000

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

Technical information



Main Dimensions & Performance Data

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
C _r	16,900 N	Basic dynamic load rating, radial
C _{0r}	7,900 N	Basic static load rating, radial
C _{ur}	540 N	Fatigue load limit, radial
n _G	8,800 1/min	Limiting speed
	0.15 kg	Weight

Mounting dimensions

d _{a min}	27 mm	Minimum diameter shaft shoulder
D _{a max}	45 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius

Dimensions

r _{min}	1.1 mm	Minimum chamfer dimension
D ₂	44.4 mm	Caliber diameter outer ring
d ₁	30.3 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	12.4	Calculation factor
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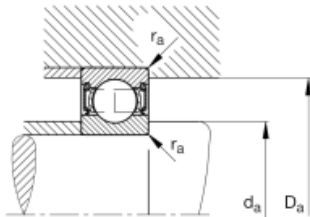
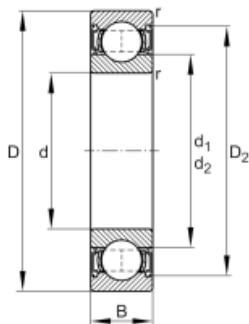
6305-2RSR

Deep groove ball bearing

Schaeffler ID:
0167229730000

Deep groove ball bearing 63...2RSR,
single row, seals, steel sheet metal cage

Technical information



Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
C _r	23,800 N	Basic dynamic load rating, radial
C _{0r}	11,500 N	Basic static load rating, radial
C _{ur}	780 N	Fatigue load limit, radial
n _G	7,300 1/min	Limiting speed
	0.237 kg	Weight

Mounting dimensions

d _{a min}	32 mm	Minimum diameter shaft shoulder
D _{a max}	55 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius

Dimensions

r _{min}	1.1 mm	Minimum chamfer dimension
D ₂	52.53 mm	Caliber diameter outer ring
d ₁	36.4 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	12.4	Calculation factor
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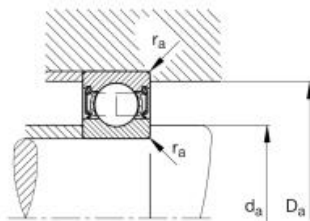
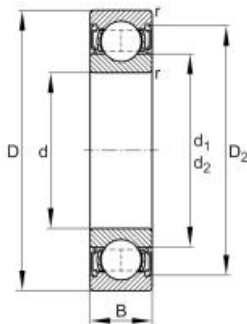
6306-2RSR

Deep groove ball bearing

Schaeffler ID:
0167231040000

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

Technical information



Main Dimensions & Performance Data

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
C _r	30,500 N	Basic dynamic load rating, radial
C _{0r}	16,200 N	Basic static load rating, radial
C _{ur}	1,050 N	Fatigue load limit, radial
n _G	6,000 1/min	Limiting speed
	0.35 kg	\$(Weight)

Mounting dimensions

d _{a min}	37 mm	Minimum diameter shaft shoulder
D _{a max}	65 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum fillet radius

Dimensions

r _{min}	1.1 mm	Minimum chamfer dimension
D ₂	61.58 mm	Caliber diameter outer ring
d ₁	44.6 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	13	Calculation factor
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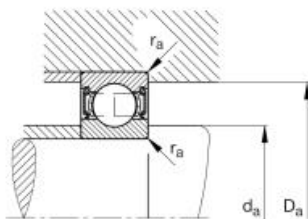
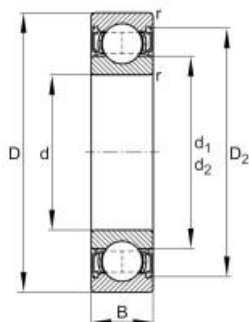
6307-2RSR

Deep groove ball bearing

Schaeffler ID:
0167232440000

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

Technical information



Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
C _r	35,500 N	Basic dynamic load rating, radial
C _{0r}	19,100 N	Basic static load rating, radial
C _{ur}	1,290 N	Fatigue load limit, radial
n _G	5,400 1/min	Limiting speed
	0.464 kg	Weight

Mounting dimensions

d _{a min}	44 mm	Minimum diameter shaft shoulder
D _{a max}	71 mm	Maximum diameter of housing shoulder
r _{a max}	1.5 mm	Maximum fillet radius

Dimensions

r _{min}	1.5 mm	Minimum chamfer dimension
D ₂	67.6 mm	Caliber diameter outer ring
d ₁	49.3 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	13.1	Calculation factor
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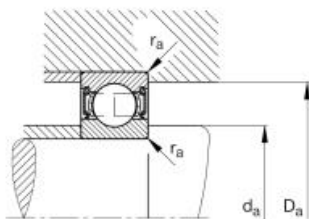
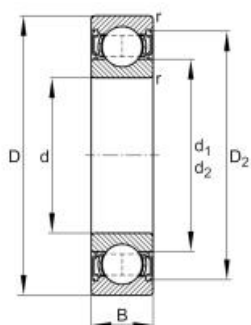
6308-2RSR

Deep groove ball bearing

Schaeffler ID:
0167233840000

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

Technical information



Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
C_r	45,500 N	Basic dynamic load rating, radial
C_{0r}	25,000 N	Basic static load rating, radial
C_{ur}	1,690 N	Fatigue load limit, radial
n_G	4,800 1/min	Limiting speed
	0.632 kg	{Weight}

Mounting dimensions

$d_{a \min}$	49 mm	Minimum diameter shaft shoulder
$D_{a \max}$	81 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1.5 mm	Maximum fillet radius

Dimensions

$r_{\min}$	1.5 mm	Minimum chamfer dimension
D_2	76.5 mm	Caliber diameter outer ring
d_1	55.55 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

Calculation factors

f_0	13	Calculation factor
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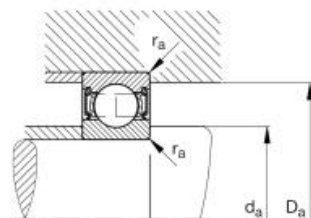
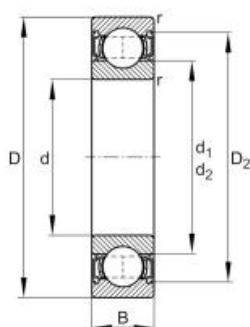
6309-2RSR

Deep groove ball bearing

Schaeffler ID:
0167235380000

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

Technical information



Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C_r	56,000 N	Basic dynamic load rating, radial
C_{0r}	31,500 N	Basic static load rating, radial
C_{ur}	2,240 N	Fatigue load limit, radial
n_G	4,300 1/min	Limiting speed
	0.835 kg	{Weight}

Mounting dimensions

$d_{a \min}$	54 mm	Minimum diameter shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1.5 mm	Maximum fillet radius

Dimensions

$r_{\min}$	1.5 mm	Minimum chamfer dimension
D_2	85.64 mm	Caliber diameter outer ring
d_1	62 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

Calculation factors

f_0	12.9	Calculation factor
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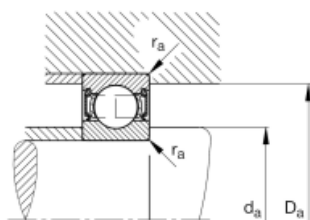
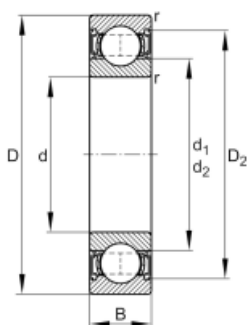
6310-2RSR

Deep groove ball bearing

Schaeffler ID:
0167236270000

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

Technical information



Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
C _r	68,000 N	Basic dynamic load rating, radial
C _{0r}	38,500 N	Basic static load rating, radial
C _{ur}	2,650 N	Fatigue load limit, radial
n _G	3,950 1/min	Limiting speed
	1.083 kg	\$(Weight)

Mounting dimensions

d _{a min}	61 mm	Minimum diameter shaft shoulder
D _{a max}	99 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum fillet radius

Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₂	95.1 mm	Caliber diameter outer ring
d ₁	68 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	13.3	Calculation factor
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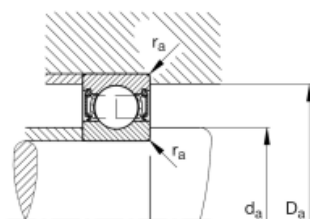
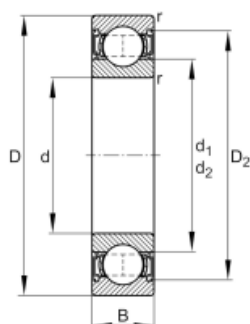
6311-2RSR

Deep groove ball bearing

Schaeffler ID:
0167237320000

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

Technical information



Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
C _r	83,000 N	Basic dynamic load rating, radial
C _{0r}	47,500 N	Basic static load rating, radial
C _{ur}	3,250 N	Fatigue load limit, radial
n _G	3,550 1/min	Limiting speed
	1.375 kg	Weight

Mounting dimensions

d _{a min}	66 mm	Minimum diameter shaft shoulder
D _{a max}	109 mm	Maximum diameter of housing shoulder
r _{a max}	2 mm	Maximum fillet radius

Dimensions

r _{min}	2 mm	Minimum chamfer dimension
D ₂	104.26 mm	Caliber diameter outer ring
d ₁	75.2 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	12.9	Calculation factor
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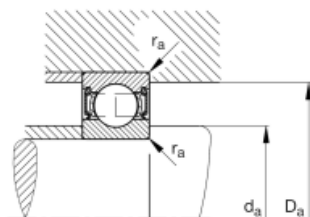
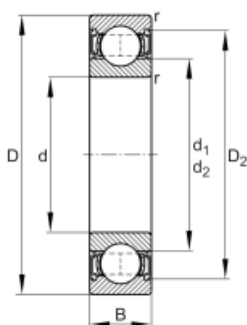
6312-2RSR

Deep groove ball bearing

Schaeffler ID:
0167238300000

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

Technical information



Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
C_r	89,000 N	Basic dynamic load rating, radial
C_{0r}	52,000 N	Basic static load rating, radial
C_{ur}	3,600 N	Fatigue load limit, radial
n_G	3,300 1/min	Limiting speed
	1.79 kg	Weight

Mounting dimensions

$d_{a \min}$	72 mm	Minimum diameter shaft shoulder
$D_{a \max}$	118 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2.1 mm	Maximum fillet radius

Dimensions

$r_{\min}$	2.1 mm	Minimum chamfer dimension
D_2	113.14 mm	Caliber diameter outer ring
d_1	81.25 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-20 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.

Calculation factors

f_0	13.2	Calculation factor
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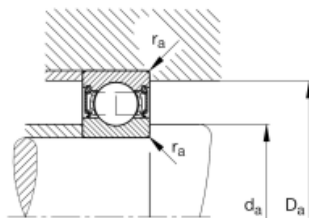
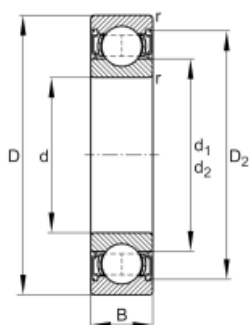
6313-2RSR

Deep groove ball bearing

Schaeffler ID:
0167239450000

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

Technical information



Main Dimensions & Performance Data

d	65 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
C _r	100,000 N	Basic dynamic load rating, radial
C _{0r}	60,000 N	Basic static load rating, radial
C _{ur}	4,050 N	Fatigue load limit, radial
n _G	3,050 1/min	Limiting speed
	2.18 kg	{Weight}

Mounting dimensions

d _{a min}	77 mm	Minimum diameter shaft shoulder
D _{a max}	128 mm	Maximum diameter of housing shoulder
r _{a max}	2.1 mm	Maximum fillet radius

Dimensions

r _{min}	2.1 mm	Minimum chamfer dimension
D ₂	122.16 mm	Caliber diameter outer ring
d ₁	88.25 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	13.2	Calculation factor
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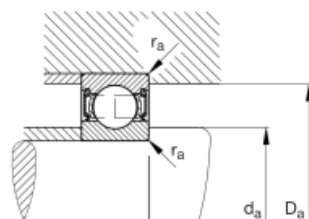
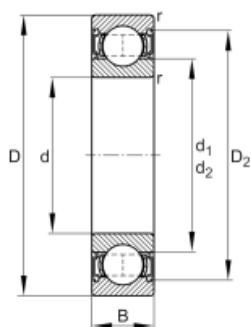
6314-2RSR

Deep groove ball bearing

Schaeffler ID:
0167240200000

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

Technical information



Main Dimensions & Performance Data

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C _r	115,000 N	Basic dynamic load rating, radial
C _{0r}	69,000 N	Basic static load rating, radial
C _{ur}	4,600 N	Fatigue load limit, radial
n _G	2,800 1/min	Limiting speed
	2.64 kg	Weight

Mounting dimensions

d _{a min}	82 mm	Minimum diameter shaft shoulder
D _{a max}	138 mm	Maximum diameter of housing shoulder
r _{a max}	2.1 mm	Maximum fillet radius

Dimensions

r _{min}	2.1 mm	Minimum chamfer dimension
D ₂	130.18 mm	Caliber diameter outer ring
d ₁	94.75 mm	Shoulder diameter inner ring

Temperature range

T _{min}	-20 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.

Calculation factors

f ₀	13.4	Calculation factor
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