

1. PREFIX

TS2:	Heat stabilization for up to 320°F (160°C)
TS3:	Heat stabilization for up to 390°F (200°C)
TS4:	Heat stabilization for up to 480°F (250°C)
5S:	Ceramic Rolling Elements

2. TYPE

32,33:	Double row angular contact ball bearings with filling slot
52,53:	Double row angular contact ball bearings without filling slot
70,72,73:	Angular contact ball bearings
BNT:	High speed angular contact ball bearings
HSB:	High speed angular contact ball bearings
SF:	Special single row angular contact ball bearings
DE & DF:	Special double row angular contact ball bearings

3. CONTACT ANGLE

No Symbol:	Contact Angle 30°
B:	Contact angle 40°
C:	Contact angle 15°

4. CHAMFER

Xn:	Special chamfer, from 1 onward (X1, X2 ...)
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5. CAGE

No Symbol:	Standard cage
J:	Pressed steel cage
L1:	Machined brass cage
T1:	Phenolic cage
T2:	Plastic cage, nylon or teflon

6. DUPLEX ARRANGEMENT

DB:	Duplex pair, back to back mounting
DF:	Duplex pair, face to face mounting
DT:	Duplex pair, tandem mounting
G:	Single bearings, flush ground universal mount for DB, DF and DT arrangement
GD2:	Pair of universally mountable bearings
+A:	Spacer (A is nominal width of spacer in mm)

7. PRELOAD

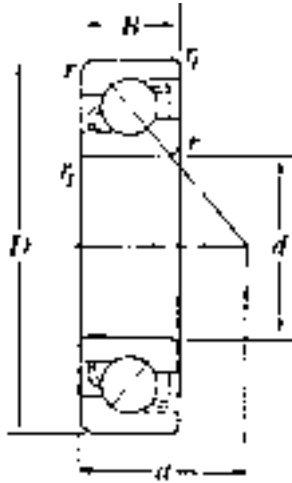
GL:	Light preload
GN:	Normal preload
GM:	Medium preload
GH:	Heavy preload
Gn:	Special preload

8. TOLERANCE

P6:	ISO class 6 (equivalent to ABEC 3)
P5:	ISO class 5 (equivalent to ABEC 5)
P4:	ISO class 4 (equivalent to ABEC 7)
PXn:	Special Tolerance, from 1 onward (PX1, PX2 ...)



Units: INCHES
Millimeters



40°
Contact Angle
72B

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

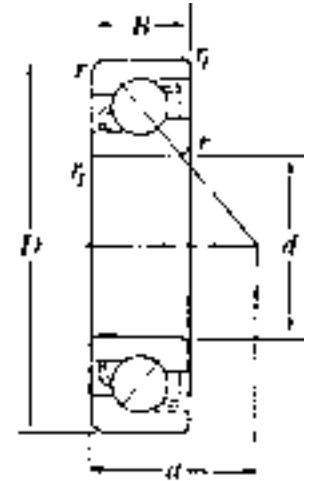
Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7200B	0.3937 10	1.1811 30	0.3543 9	0.024 0.6	0.012 0.3	0.51 13	1,120	565	24,000	32,000	0.064	19,000	26,000
7201B	0.4724 12	1.2598 32	0.3937 10	0.024 0.6	0.012 0.3	0.55 14	1,480	750	21,000	28,000	0.079	17,000	23,000
7202B	0.5906 15	1.3780 35	0.4331 11	0.024 0.6	0.012 0.3	0.63 16	1,880	980	18,000	25,000	0.101	15,000	20,000
7203B	0.6693 17	1.5748 40	0.4724 12	0.024 0.6	0.012 0.3	0.72 18	2,480	1,370	17,000	22,000	0.146	13,000	18,000
7204B	0.7874 20	1.8504 47	0.5512 14	0.039 1.0	0.024 0.6	0.85 21.5	2,990	1,730	15,000	20,000	0.225	12,000	16,000
7205B	0.9843 25	2.0472 52	0.5906 15	0.039 1.0	0.024 0.6	0.94 24	3,300	2,120	12,000	16,000	0.284	10,000	13,000
7206B	1.1811 30	2.4409 62	0.6299 16	0.039 1.0	0.024 0.6	1.08 27.5	4,600	3,050	11,000	14,000	0.434	8,600	11,000
7207B	1.3780 35	2.8346 72	0.6693 17	0.043 1.1	0.024 0.6	1.22 31	6,100	4,150	9,300	12,000	0.633	7,500	10,000
7208B	1.5748 40	3.1496 80	0.7087 18	0.043 1.1	0.024 0.6	1.34 34	7,200	5,150	8,300	11,000	0.827	6,700	8,900
7209B	1.7717 45	3.3465 85	0.7480 19	0.043 1.1	0.024 0.6	1.46 37	8,100	5,900	7,400	9,900	0.904	6,000	8,000
7210B	1.9685 50	3.5433 90	0.7874 20	0.043 1.1	0.024 0.6	1.56 39.5	8,400	6,450	6,700	9,000	1.03	5,500	7,300
7211B	2.1654 55	3.9370 100	0.8268 21	0.059 1.5	0.039 1.0	1.69 43	10,400	8,100	6,100	8,200	1.35	5,000	6,600
7212B	2.3622 60	4.3307 110	0.8661 22	0.059 1.5	0.039 1.0	1.87 47.5	12,600	10,000	5,700	7,600	1.72	4,600	6,100
7213B	2.5591 65	4.7244 120	0.9055 23	0.059 1.5	0.039 1.0	1.99 50.5	14,300	11,800	5,200	7,000	2.16	4,200	5,600
7214B	2.7559 70	4.9213 125	0.9449 24	0.059 1.5	0.039 1.0	2.09 53	15,500	13,000	4,900	6,500	2.45	3,900	5,200
7215B	2.9528 75	5.1181 130	0.9843 25	0.059 1.5	0.039 1.0	2.20 56	16,000	14,000	4,500	6,000	2.62	3,700	4,900
7216B	3.1496 80	5.5118 140	1.0236 26	0.079 2	0.039 1.0	2.32 59	18,100	15,600	4,300	5,700	3.13	3,400	4,600
7217B	3.3465 85	5.9055 150	1.1024 28	0.079 2	0.039 1.0	2.50 63.5	20,200	18,100	4,000	5,300	4.01	3,200	4,300
7218B	3.5433 90	6.2992 160	1.1811 30	0.098 2.5	0.039 1.0	2.66 67.5	24,000	21,100	3,800	5,000	4.89	3,100	4,100
7219B	3.7402 95	6.6929 170	1.2598 32	0.083 2.1	0.059 1.5	2.81 71.5	27,200	24,200	3,500	4,700	6.00	2,900	3,800
7220B	3.9370 100	7.0866 180	1.3386 34	0.083 2.1	0.059 1.5	2.99 76	29,300	25,700	3,400	4,500	7.19	2,700	3,600
7221B	4.1339 105	7.4803 190	1.4173 36	0.083 2.1	0.059 1.5	3.15 80	32,000	29,000	3,200	4,300	8.53	2,600	3,500
7222B	4.3307 110	7.8740 200	1.4961 38	0.083 2.1	0.059 1.5	3.31 84	34,500	32,500	3,000	4,000	10.0	2,500	3,300
7224B	4.7244 120	8.4646 215	1.5748 40	0.083 2.1	0.059 1.5	3.56 90.5	37,000	36,500	2,800	3,700	13.8	2,300	3,000
7226B	5.1181 130	9.0551 230	1.5748 40	0.118 3	0.059 1.5	3.76 95.5	40,000	40,500	2,500	3,400	15.8	2,100	2,700
7228B	5.5118 140	9.8425 250	1.6535 42	0.118 3	0.059 1.5	4.06 103	41,000	44,000	2,300	3,100	19.4	1,900	2,500
7230B	5.9055 150	10.6299 270	1.7717 45	0.118 3	0.059 1.5	4.37 111	47,000	53,000	2,200	2,900	24.3	1,800	2,400
7232B	6.2992 160	11.4173 290	1.8898 48	0.118 3	0.059 1.5	4.65 118	53,500	62,500	2,000	2,700	30.2	1,600	2,200
7234B	6.6929 170	12.2047 310	2.0472 52	0.157 4	0.059 1.5	5.00 127	60,000	73,500	1,900	2,500	37.5	1,500	2,100
7236B	7.0866 180	12.5984 320	2.0472 52	0.157 4	0.059 1.5	5.16 131	62,000	78,500	1,800	2,400	39.0	1,400	1,900
7238B	7.4803 190	13.3858 340	2.1654 55	0.157 4	0.059 1.5	5.47 139	61,500	79,500	1,700	2,200	47.0	1,400	1,800
7240B	7.8740 200	14.1732 360	2.2835 58	0.157 4	0.059 1.5	5.75 146	68,500	91,500	1,600	2,100	55.8	1,300	1,700

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

Units: INCHES
Millimeters



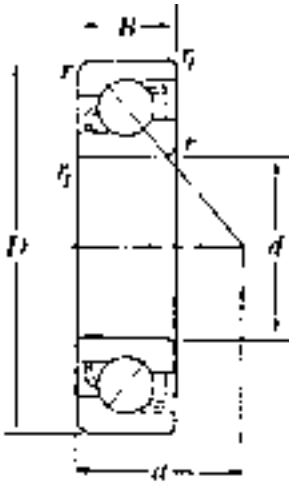
Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7300B	0.3937 10	1.3780 35	0.4331 11	0.024 0.6	0.020 0.3	0.59 15	2,140	1,040	22,000	29,000	0.090	18,000	24,000
7301B	0.4724 12	1.4567 37	0.4724 12	0.039 1	0.024 0.6	0.6496 16.5	2,370	1,110	19,000	26,000	0.099	16,000	21,000
7302B	0.5906 15	1.6535 42	0.5118 13	0.039 1	0.024 0.6	0.7480 19	2,810	1,500	17,000	22,000	0.126	13,000	18,000
7303B	0.6693 17	1.8504 47	0.5512 14	0.039 1	0.024 0.6	0.81 20.5	3,350	1,800	15,000	20,000	0.240	12,000	16,000
7304B	0.7874 20	2.0472 52	0.5906 15	0.043 1.1	0.024 0.6	0.89 22.5	3,900	2,170	13,000	18,000	0.311	11,000	14,000
7305B	0.9843 25	2.4409 62	0.6693 17	0.043 1.1	0.024 0.6	1.06 27	5,500	3,300	11,000	15,000	0.516	9,100	12,000
7306B	1.1811 30	2.8346 72	0.7480 19	0.043 1.1	0.024 0.6	1.24 31.5	6,950	4,600	9,600	13,000	0.776	7,700	10,000
7307B	1.3780 35	3.1496 80	0.8268 21	0.059 1.5	0.039 1	1.36 34.5	8,250	5,450	8,400	11,000	1.03	6,800	9,000
7308B	1.5748 40	3.5433 90	0.9055 23	0.059 1.5	0.039 1	1.54 39	10,100	6,800	7,400	9,900	1.40	6,000	8,000
7309B	1.7717 45	3.9370 100	0.9843 25	0.059 1.5	0.039 1	1.69 43	13,100	9,050	6,600	8,900	1.88	5,400	7,200
7310B	1.9685 50	4.3307 110	1.0630 27	0.079 2	0.039 1	1.85 47	15,300	10,800	6,000	8,100	2.45	4,900	6,500
7311B	2.1654 55	4.7244 120	1.1417 29	0.079 2	0.039 1	2.05 52	17,700	12,800	5,500	7,300	3.13	4,500	5,900
7312B	2.3622 60	5.1181 130	1.2205 31	0.083 2.1	0.043 1.1	2.20 56	20,200	14,800	5,100	6,800	3.90	4,100	5,500
7313B	2.5591 65	5.5118 140	1.2992 33	0.083 2.1	0.043 1.1	2.34 59.5	22,900	17,000	4,700	6,300	4.72	3,800	5,100
7314B	2.7559 70	5.9055 150	1.3780 35	0.083 2.1	0.043 1.1	2.50 63.5	25,700	19,300	4,400	5,800	5.75	3,500	4,700
7315B	2.9528 75	6.2992 160	1.4567 37	0.083 2.1	0.043 1.1	2.68 68	28,000	21,900	4,100	5,400	6.90	3,300	4,400
7316B	3.1496 80	6.6929 170	1.5354 39	0.083 2.1	0.043 1.1	2.83 72	30,500	24,600	3,800	5,100	8.20	3,100	4,100
7317B	3.3465 85	7.0866 180	1.6142 41	0.118 3	0.043 1.1	2.99 76	32,500	27,400	3,600	4,800	9.77	2,900	3,900
7318B	3.5433 90	7.4803 190	1.6929 43	0.118 3	0.043 1.1	3.17 80.5	35,000	30,500	3,400	4,500	11.4	2,700	3,700
7319B	3.7402 95	7.8740 200	1.7717 45	0.118 3	0.043 1.1	3.33 84.5	37,500	33,500	3,200	4,200	13.2	2,600	3,400
7320B	3.9370 100	8.4646 215	1.8504 47	0.118 3	0.043 1.1	3.52 89.5	43,000	40,000	3,000	4,000	16.1	2,400	3,300
7321B	4.1339 105	8.8583 225	1.9291 49	0.118 3	0.043 1.1	3.68 93.5	45,500	43,500	2,900	3,800	18.4	2,300	3,100
7322B	4.3307 110	9.4488 240	1.9685 50	0.118 3	0.043 1.1	3.90 99	51,000	51,000	2,700	3,700	21.6	2,200	3,000
7324B	4.7244 120	10.2362 260	2.1654 55	0.157 4	0.043 1.1	4.21 107	50,500	52,000	2,500	3,300	32.4	2,000	2,700
7326B	5.1181 130	11.0236 280	2.2835 58	0.157 4	0.059 1.5	4.53 115	56,000	60,500	2,300	3,100	38.8	1,900	2,500
7328B	5.5118 140	11.8110 300	2.4409 62	0.157 4	0.059 1.5	4.84 123	62,000	69,500	2,100	2,800	47.4	1,700	2,300
7330B	5.9055 150	12.5984 320	2.5591 65	0.157 4	0.059 1.5	5.16 131	67,500	79,000	2,000	2,600	55.3	1,600	2,100
7332B	6.2992 160	13.3858 340	2.6772 68	0.157 4	0.059 1.5	5.47 139	71,000	87,000	1,800	2,400	65.7	1,500	2,000
7334B	6.6929 170	14.1732 360	2.8346 72	0.157 4	0.059 1.5	5.79 147	80,000	100,000	1,700	2,300	77.8	1,400	1,800
7336B	7.0866 180	14.9606 380	2.9528 75	0.157 4	0.059 1.5	6.10 155	84,000	110,000	1,600	2,100	90.2	1,300	1,700
7338B	7.4803 190	15.7480 400	3.0709 78	0.197 5	0.079 2	6.42 163	87,500	120,000	1,500	2,000	104	1,200	1,600
7340B	7.8740 200	16.5354 420	3.1496 80	0.197 5	0.079 2	6.69 170	92,000	125,000	1,400	1,900	117	1,200	1,500



40°
Contact Angle
73B



Units: **INCHES**
Millimeters



40°
Contact Angle
74B

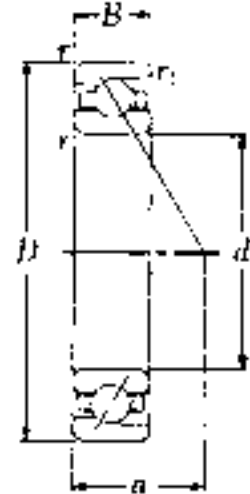
Bearing No.	Bore	O.D.	Width	Fillet Radius		Load Center	Basic Load Ratings (lbs)		Weight (lbs)
	d	D	B	r	r ₁	a	Dynamic C	Static C ₀	
7404B	.7874 20	2.8346 72	.7480 19	.043 1.1	.024 .6	1.14 29	6,850	3,650	1.00
7406B	1.1811 30	3.5433 90	.9843 25	.039 1	.024 .6	1.46 37	9,100	5,450	1.83
7407B	1.3780 35	3.9370 100	.9843 25	.039 1	.024 .6	1.61 41	11,600	7,350	2.45
7408B	1.5748 40	4.3307 110	1.0630 27	.059 1.5	.024 .6	1.77 45	13,600	8,500	3.09
7409B	1.7717 45	4.7244 120	1.1417 29	.059 1.5	.024 .6	1.95 49.5	16,800	11,100	3.94
7410B	1.9685 50	5.1181 130	1.2205 31	.083 2.1	.043 1.1	2.11 53.5	19,100	12,800	4.87
7411B	2.1654 55	5.5118 140	1.2992 33	.083 2.1	.043 1.1	2.26 57.5	20,300	13,900	6.02
7412B	2.3622 60	5.9055 150	1.3780 35	.083 2.1	.043 1.1	2.44 62	22,800	15,900	7.25
7413B	2.5591 65	6.2992 160	1.4567 37	.083 2.1	.043 1.1	2.60 66	26,500	19,800	8.77
7414B	2.7559 70	7.0866 180	1.6535 42	.098 2.5	.043 1.1	2.89 73.5	31,000	24,900	12.7
7415B	2.9528 75	7.4803 190	1.7717 45	.098 2.5	.043 1.1	3.09 78.5	33,500	27,000	15.0
7416B	3.1496 80	7.8740 200	1.8898 48	.098 2.5	.043 1.1	3.27 83	35,500	29,800	17.5
7417B	3.3465 85	8.2677 210	2.0472 52	.118 3	.039 1	3.46 88	39,500	33,500	20.4
7418B	3.5433 90	8.8583 225	2.1260 54	.118 3	.039 1	3.68 93.5	45,000	44,000	24.9

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

Units: INCHES
Millimeters



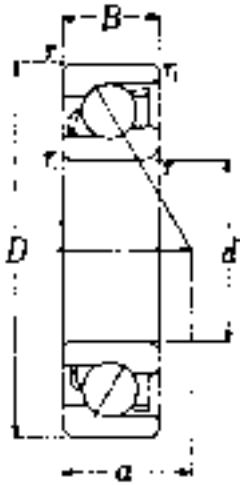
Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7000	0.3937 10	1.0236 26	0.3150 8	0.012 0.3	0.006 0.15	0.35 9.0	1,040	465	29,000	39,000	0.049	23,000	31,000
7001	0.4724 12	1.1024 28	0.3150 8	0.012 0.3	0.006 0.15	0.39 10.0	1,140	555	26,000	35,000	0.053	21,000	28,000
7002	0.5906 15	1.2598 32	0.3543 9	0.012 0.3	0.006 0.15	0.45 11.5	1,300	705	23,000	31,000	0.077	18,000	24,000
7003	0.6693 17	1.3780 35	0.3937 10	0.012 0.3	0.006 0.15	0.49 12.5	1,610	860	21,000	28,000	0.099	17,000	22,000
7004	0.7874 20	1.6535 42	0.4724 12	0.024 0.6	0.012 0.3	0.59 15.0	2,180	1,260	19,000	25,000	0.174	15,000	20,000
7005	0.9843 25	1.8504 47	0.4724 12	0.024 0.6	0.012 0.3	0.65 16.5	2,420	1,540	16,000	21,000	0.201	12,000	17,000
7006	1.1811 30	2.1654 55	0.5118 13	0.039 1	0.024 0.6	0.75 19.0	3,100	2,130	13,000	18,000	0.293	11,000	14,000
7007	1.3780 35	2.4409 62	0.5512 14	0.039 1	0.024 0.6	0.83 21.0	3,950	2,830	12,000	16,000	0.403	9,400	13,000
7008	1.5748 40	2.6772 68	0.5906 15	0.039 1	0.024 0.6	0.91 23.0	4,200	3,300	10,000	14,000	0.481	8,300	11,000
7009	1.7717 45	2.9528 75	0.6299 16	0.039 1	0.024 0.6	1.00 25.5	5,000	3,950	9,500	13,000	0.613	7,500	10,000
7010	1.9685 50	3.1496 80	0.6299 16	0.039 1	0.024 0.6	1.06 27.0	5,300	4,500	8,600	11,000	0.677	6,800	9,100
7011	2.1654 55	3.5433 90	0.7087 18	0.043 1.1	0.024 0.6	1.18 30.0	7,000	5,900	7,900	11,000	0.924	6,300	8,400
7012	2.3622 60	3.7402 95	0.7087 18	0.043 1.1	0.024 0.6	1.24 31.5	7,150	6,300	7,200	9,600	0.990	5,800	7,700
7013	2.5591 65	3.9370 100	0.7087 18	0.043 1.1	0.024 0.6	1.30 33.0	7,600	7,050	6,700	9,000	1.05	5,400	7,100
7014	2.7559 70	4.3307 110	0.7874 20	0.043 1.1	0.024 0.6	1.42 36.0	9,600	8,850	6,200	8,300	1.58	5,000	6,600
7015	2.9528 75	4.5276 115	0.7874 20	0.043 1.1	0.024 0.6	1.48 37.5	9,800	9,400	5,800	7,800	1.67	4,600	6,200
7016	3.1496 80	4.9213 125	0.8661 22	0.043 1.1	0.024 0.6	1.59 40.5	12,000	11,400	5,500	7,300	2.16	4,400	5,800
7017	3.3465 85	5.1181 130	0.8661 22	0.043 1.1	0.024 0.6	1.65 42.0	12,300	12,000	5,100	6,900	2.43	4,100	5,500
7018	3.5433 90	5.5118 140	0.9449 24	0.059 1.5	0.039 1	1.77 45.0	14,700	14,200	4,900	6,500	3.09	3,900	5,200
7019	3.7402 95	5.7087 145	0.9449 24	0.059 1.5	0.039 1	1.83 46.5	15,000	15,000	4,600	6,100	3.26	3,700	4,900
7020	3.9370 100	5.9055 150	0.9449 24	0.059 1.5	0.039 1	1.89 48.0	15,400	15,900	4,400	5,800	3.35	3,500	4,600
7021	4.1339 105	6.2992 160	1.0236 26	0.079 2	0.039 1	2.03 51.5	18,000	18,400	4,100	5,500	4.21	3,300	4,400
7022	4.3307 110	6.6929 170	1.1024 28	0.079 2	0.039 1	2.15 54.5	20,600	20,900	3,900	5,300	5.29	3,100	4,200
7024	4.7244 120	7.0866 180	1.1024 28	0.079 2	0.039 1	2.26 57.5	21,100	22,200	3,600	4,800	5.73	2,900	3,800
7026	5.1181 130	7.8740 200	1.2992 33	0.079 2	0.039 1	2.52 64.0	26,400	28,200	3,300	4,400	8.64	2,600	3,500
7028	5.5118 140	8.2677 210	1.2992 33	0.079 2	0.039 1	2.64 67.0	26,900	29,800	3,100	4,100	9.17	2,400	3,300
7030	5.9055 150	8.8583 225	1.3780 35	0.083 2.1	0.043 1.1	2.81 71.5	31,000	34,500	2,800	3,800	10.7	2,300	3,000
7032	6.2992 160	9.4488 240	1.4961 38	0.083 2.1	0.043 1.1	3.03 77.0	35,000	39,500	2,700	3,600	13.0	2,100	2,800
7034	6.6929 170	10.2362 260	1.6535 42	0.083 2.1	0.043 1.1	3.27 83.0	42,000	48,000	2,500	3,300	17.4	2,000	2,600
7036	7.0866 180	11.0236 280	1.8110 46	0.083 2.1	0.043 1.1	3.52 89.5	49,000	59,500	2,300	3,100	22.0	1,900	2,500
7038	7.4803 190	11.4173 290	1.8110 46	0.083 2.1	0.043 1.1	3.64 92.5	50,500	63,000	2,200	2,900	23.6	1,800	2,300
7040	7.8740 200	12.2047 310	2.0079 51	0.083 2.1	0.043 1.1	3.90 99.0	56,500	73,000	2,100	2,800	30.4	1,700	2,200



30°
Contact Angle



Units: INCHES
Millimeters



30°
Contact Angle
72

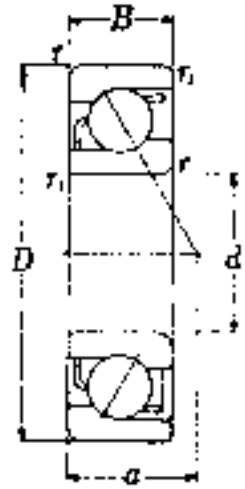
Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
				Duplex: DB, DF, DT									
7200	0.3937 10	1.1811 30	0.3543 9	0.024 0.6	0.012 0.3	0.41 10.5	1,220	615	28,000	37,000	0.064	22,000	30,000
7201	0.4724 12	1.2598 32	0.3937 10	0.024 0.6	0.012 0.3	0.45 11.5	1,600	810	25,000	33,000	0.077	20,000	26,000
7202	0.5906 15	1.3780 35	0.4331 11	0.024 0.6	0.012 0.3	0.49 12.5	2,040	1,060	22,000	29,000	0.101	17,000	23,000
7203	0.6693 17	1.5748 40	0.4724 12	0.024 0.6	0.012 0.3	0.57 14.5	2,690	1,490	19,000	26,000	0.141	15,000	21,000
7204	0.7874 20	1.8504 47	0.5512 14	0.039 1	0.024 0.6	0.67 17	3,250	1,890	17,000	23,000	0.220	14,000	18,000
7205	0.9843 25	2.0472 52	0.5906 15	0.039 1	0.024 0.6	0.75 19	3,650	2,320	14,000	19,000	0.276	11,000	15,000
7206	1.1811 30	2.4409 62	0.6299 16	0.039 1	0.024 0.6	0.85 21.5	5,050	3,350	12,000	16,000	0.425	9,800	13,000
7207	1.3780 35	2.8346 72	0.6693 17	0.043 1.1	0.024 0.6	0.94 24	6,700	4,500	11,000	14,000	0.619	8,600	11,000
7208	1.5748 40	3.1496 80	0.7087 18	0.043 1.1	0.024 0.6	1.04 26.5	7,950	5,650	9,600	13,000	0.783	7,700	10,000
7209	1.7717 45	3.3465 85	0.7480 19	0.043 1.1	0.024 0.6	1.12 28.5	8,900	6,450	8,700	12,000	0.891	6,900	9,200
7210	1.9685 50	3.5433 90	0.7874 20	0.043 1.1	0.024 0.6	1.18 30	9,300	7,050	7,900	10,000	1.01	6,300	8,300
7211	2.1654 55	3.9370 100	0.8268 21	0.059 1.5	0.039 1	1.30 33	11,500	8,900	7,100	9,500	1.32	5,700	7,600
7212	2.3622 60	4.3307 110	0.8661 22	0.059 1.5	0.039 1	1.42 36	13,900	11,000	6,600	8,800	1.69	5,300	7,000
7213	2.5591 65	4.7244 120	0.9055 23	0.059 1.5	0.039 1	1.50 38	15,800	13,000	6,100	8,100	2.12	4,900	6,500
7214	2.7559 70	4.9213 125	0.9449 24	0.059 1.5	0.039 1	1.57 40	17,200	14,300	5,700	7,600	2.40	4,500	6,000
7215	2.9528 75	5.1181 130	0.9843 25	0.059 1.5	0.039 1	1.67 42.5	17,800	15,400	5,300	7,100	2.58	4,200	5,600
7216	3.1496 80	5.5118 140	1.0236 26	0.079 2	0.039 1	1.77 45	20,000	17,100	5,000	6,600	3.06	3,900	5,300
7217	3.3465 85	5.9055 150	1.1024 28	0.079 2	0.039 1	1.89 48	22,400	19,900	4,700	6,200	3.92	3,700	5,000
7218	3.5433 90	6.2992 160	1.1811 30	0.079 2	0.039 1	2.01 51	26,500	23,200	4,400	5,900	4.81	3,500	4,700
7219	3.7402 95	6.6929 170	1.2598 32	0.083 2.1	0.043 1.1	2.15 54.5	30,000	26,500	4,100	5,500	5.89	3,300	4,400
7220	3.9370 100	7.0866 180	1.3386 34	0.083 2.1	0.043 1.1	2.26 57.5	32,500	28,200	3,900	5,200	7.05	3,100	4,200
7221	4.1339 105	7.4803 190	1.4173 36	0.083 2.1	0.043 1.1	2.38 60.5	35,000	32,000	3,700	5,000	8.36	3,000	4,000
7222	4.3307 110	7.8740 200	1.4961 38	0.083 2.1	0.043 1.1	2.52 64	38,000	35,500	3,500	4,700	9.81	2,800	3,800
7224	4.7244 120	8.4646 215	1.5748 40	0.083 2.1	0.043 1.1	2.70 68.5	41,000	40,000	3,200	4,300	13.8	2,600	3,400
7226	5.1181 130	9.0551 230	1.5748 40	0.118 3	0.043 1.1	2.83 72	44,000	44,500	3,000	4,000	15.8	2,400	3,100
7228	5.5118 140	9.8425 250	1.6535 42	0.118 3	0.043 1.1	3.05 77.5	45,500	48,500	2,700	3,600	19.4	2,200	2,900
7230	5.9055 150	10.6299 270	1.7717 45	0.118 3	0.043 1.1	3.27 83	52,000	58,000	2,500	3,400	24.3	2,000	2,700
7232	6.2992 160	11.4173 290	1.8898 48	0.118 3	0.043 1.1	3.50 89	59,000	69,000	2,400	3,200	30.2	1,900	2,500
7234	6.6929 170	12.2047 310	2.0472 52	0.157 4	0.059 1.5	3.76 95.5	66,000	80,500	2,200	3,000	37.5	1,800	2,400
7236	7.0866 180	12.5984 320	2.0472 52	0.157 4	0.059 1.5	3.86 98	68,500	86,500	2,100	2,800	39.0	1,700	2,200
7238	7.4803 190	13.3858 340	2.1654 55	0.157 4	0.059 1.5	4.09 104	68,000	87,500	2,000	2,600	47.0	1,600	2,100
7240	7.8740 200	14.1732 360	2.2835 58	0.157 4	0.059 1.5	4.33 110	76,000	101,000	1,900	2,500	55.8	1,500	2,000

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

Units: INCHES
Millimeters



Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7300	0.3937 10 35	1.3780 35 11	0.4331 11 0.6	0.024 0.6	0.012 0.3	0.47 12	2,280	11,100	26,000	34,000	0.088	20,000	27,000
7301	0.4724 12 37	1.4567 42 12	0.4724 12 1	0.039 1	0.024 0.6	0.5118 13	2,510	1,180	23,000	30,000	0.097	18,000	24,000
7302	0.5906 15 42	1.6535 42 13	0.5118 13 1	0.039 1	0.024 0.6	0.5906 15	3,000	1,620	19,000	26,000	0.121	15,000	21,000
7303	0.6693 17 47	1.8504 47 14	0.5512 14 1	0.039 1	0.024 0.6	0.63 16	3,600	1,940	18,000	24,000	0.236	14,000	19,000
7304	0.7874 20 52	2.0472 52 15	0.5906 15 1.1	0.043 1.1	0.024 0.6	0.71 18	4,200	2,340	16,000	21,000	0.304	12,000	17,000
7305	0.9843 25 62	2.4409 62 17	0.6693 17 1.1	0.043 1.1	0.024 0.6	0.83 21	5,950	3,550	13,000	17,000	0.507	10,000	14,000
7306	1.1811 30 72	2.8346 72 19	0.7480 19 1.1	0.043 1.1	0.024 0.6	0.96 24.5	7,550	5,000	11,000	15,000	0.761	8,900	12,000
7307	1.3780 35 80	3.1496 80 21	0.8268 21 1.5	0.059 1.5	0.039 1	1.06 27	9,000	5,900	9,800	13,000	1.02	7,800	10,000
7308	1.5748 40 90	3.5433 90 23	0.9055 23 0.59	0.059 0.59	0.039 1	1.20 30.5	11,000	7,400	8,600	12,000	1.38	6,900	9,200
7309	1.7717 45 100	3.9370 100 25	0.9843 25 1.5	0.059 1.5	0.039 1	1.32 33.5	14,300	9,800	7,800	10,000	1.85	6,200	8,200
7310	1.9685 50 110	4.3307 110 27	1.0630 27 2	0.079 2	0.039 1	1.44 36.5	16,700	11,700	7,100	9,400	2.40	5,600	7,500
7311	2.1654 55 120	4.7244 120 29	1.1417 29 2	0.079 2	0.039 1	1.57 40	19,300	13,900	6,400	8,600	3.06	5,100	6,800
7312	2.3622 60 130	5.1181 130 31	1.2205 31 2.1	0.083 2.1	0.059 1.5	1.69 43	22,000	16,100	5,900	7,900	3.84	4,700	6,300
7313	2.5591 65 140	5.5118 140 33	1.2992 33 2.1	0.083 2.1	0.059 1.5	1.81 46	25,000	18,400	5,500	7,300	4.65	4,400	5,800
7314	2.7559 70 150	5.9055 150 35	1.3780 35 2.1	0.083 2.1	0.059 1.5	1.95 49.5	28,000	21,000	5,100	6,800	5.64	4,100	5,400
7315	2.9528 75 160	6.2992 160 37	1.4567 37 2.1	0.083 2.1	0.059 1.5	2.07 52.5	30,500	23,800	4,800	6,300	6.77	3,800	5,000
7316	3.1496 80 170	6.6929 170 39	1.5354 39 2.1	0.083 2.1	0.059 1.5	2.19 55.5	33,000	26,700	4,500	5,900	8.05	3,500	4,700
7317	3.3465 85 180	7.0866 180 41	1.6142 41 3	0.118 3	0.059 1.5	2.32 59	35,500	29,800	4,200	5,600	9.57	3,300	4,500
7318	3.5433 90 190	7.4803 190 43	1.6929 43 3	0.118 3	0.059 1.5	2.44 62	38,500	33,000	4,000	5,300	11.2	3,200	4,200
7319	3.7402 95 200	7.8740 200 45	1.7717 45 3	0.118 3	0.059 1.5	2.56 65	41,000	36,500	3,700	5,000	13.0	3,000	3,900
7320	3.9370 100 215	8.4646 215 47	1.8504 47 3	0.118 3	0.059 1.5	2.72 69	46,500	43,500	3,500	4,700	15.8	2,800	3,700
7321	4.1339 105 225	8.8583 225 49	1.9291 49 3	0.118 3	0.059 1.5	2.83 72	49,500	47,500	3,400	4,500	18.1	2,700	3,600
7322	4.3307 110 240	9.4488 240 50	1.9685 50 3	0.118 3	0.059 1.5	2.99 76	52,000	50,500	3,200	4,300	21.2	2,600	3,400
7324	4.7244 120 260	10.2362 260 55	2.1654 55 3	0.118 3	0.059 1.5	3.25 82.5	55,500	56,500	2,900	3,900	32.4	2,300	3,100
7326	5.1181 130 280	11.0236 280 58	2.2835 58 4	0.157 4	0.059 1.5	3.46 88	61,500	66,000	2,700	3,600	38.8	2,100	2,800
7328	5.5118 140 300	11.8110 300 62	2.4409 62 4	0.157 4	0.059 1.5	3.72 94.5	67,500	75,500	2,500	3,300	47.4	2,000	2,600
7330	5.9055 150 320	12.5984 320 65	2.5591 65 4	0.157 4	0.059 1.5	3.94 100	74,000	86,000	2,300	3,100	55.3	1,800	2,400
7332	6.2992 160 340	13.3858 340 68	2.6772 68 4	0.157 4	0.059 1.5	4.17 106	78,000	95,000	2,100	2,800	65.7	1,700	2,300
7334	6.6929 170 360	14.1732 360 72	2.8346 72 4	0.157 4	0.059 1.5	4.45 113	87,500	109,000	2,000	2,700	77.8	1,600	2,100
7336	7.0866 180 380	14.9606 380 75	2.9528 75 4	0.157 4	0.059 1.5	4.65 118	92,000	120,000	1,900	2,500	90.2	1,500	2,000
7338	7.4803 190 400	15.7480 400 78	3.0709 78 5	0.197 5	0.059 1.5	4.88 124	96,500	131,000	1,800	2,300	104	1,400	1,900
7340	7.8740 200 420	16.5354 420 80	3.1496 80 5	0.197 5	0.059 1.5	5.12 130	101,000	137,000	1,700	2,200	117	1,300	1,800



30°
Contact Angle
73



**SERIES
70C**

**High
Precision
Grade**

Suffix P5

- AFBMA RBEC 5 •
- ISO Class 5 •

Suffix P4

- AFBMA ABEC 7 •
- ISO Class 4 •

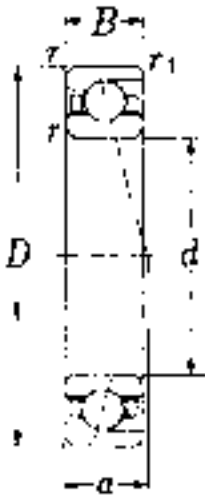
Suffix P2

- AFBMA ABEC 9 •
- ISO Class 2 •

Units: **INCHES**
Millimeters

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7000C	0.3937 10	1.0236 26	0.3150 8	0.012 0.3	0.15 0.06	0.26 6.5	1,790	990	43,000	58,000	0.042	34,000	46,000
7001C	0.4724 12	1.1024 28	0.3150 8	0.012 0.3	0.15 0.06	0.26 6.5	1,220	595	39,000	52,000	0.046	31,000	41,000
7002C	0.5906 15	1.2598 32	0.3543 9	0.012 0.3	0.15 0.06	0.30 7.5	1,400	760	32,000	42,000	0.064	27,000	36,000
7003C	0.6693 17	1.3780 35	0.3937 10	0.012 0.3	0.15 0.06	0.33 8.5	1,740	925	31,000	41,000	0.084	24,000	33,000
7004C	0.7874 20	1.6535 42	0.4724 12	0.024 0.6	0.012 0.3	0.39 10.0	2,360	1,360	27,000	36,000	0.146	22,000	29,000
7005C	0.9843 25	1.8504 47	0.4724 12	0.024 0.6	0.012 0.3	0.43 11.0	2,630	1,670	23,000	31,000	0.132	18,000	24,000
7006C	1.1811 30	2.1654 55	0.5118 13	0.039 1.0	0.024 0.6	0.49 12.5	3,400	2,310	20,000	26,000	0.196	16,000	21,000
7007C	1.3780 35	2.4409 62	0.5512 14	0.039 1.0	0.024 0.6	0.53 13.5	4,300	3,050	17,000	23,000	0.287	14,000	18,000
7008C	1.5748 40	2.6772 68	0.5906 15	0.039 1.0	0.024 0.6	0.57 14.5	4,600	3,550	15,000	21,000	0.357	12,000	16,000
7009C	1.7717 45	2.9528 75	0.6299 16	0.039 1.0	0.024 0.6	0.63 16.0	5,500	4,350	14,000	19,000	0.461	11,000	15,000
7010C	1.9685 50	3.1496 80	0.6299 16	0.039 1.0	0.024 0.6	0.65 16.5	5,850	4,900	13,000	17,000	0.514	10,000	13,000
7011C	2.1654 55	3.5433 90	0.7087 18	0.043 1.1	0.024 0.6	0.73 18.5	7,650	6,450	12,000	15,000	0.712	9,200	12,000
7012C	2.3622 60	3.7402 95	0.7087 18	0.043 1.1	0.024 0.6	0.77 19.5	7,900	6,900	11,000	14,000	0.772	8,400	11,000
7013C	2.5591 65	3.9370 100	0.7087 18	0.043 1.1	0.024 0.6	0.79 20.0	8,350	7,700	9,900	13,000	0.840	7,800	10,000
7014C	2.7559 70	4.3307 110	0.7874 20	0.043 1.1	0.024 0.6	0.87 22.0	10,500	9,650	9,200	12,000	1.28	7,300	9,700
7015C	2.9528 75	4.5276 115	0.7874 20	0.043 1.1	0.024 0.6	0.89 22.5	10,800	10,300	8,600	11,000	1.33	6,800	9,000
7016C	3.1496 80	4.9213 125	0.8661 22	0.043 1.1	0.024 0.6	0.96 24.5	13,200	12,400	8,000	11,000	1.72	6,400	8,500
7017C	3.3465 85	5.1181 130	0.8661 22	0.043 1.1	0.024 0.6	1.00 25.5	13,500	13,200	7,600	10,000	1.94	6,000	8,000
7018C	3.5433 90	5.5118 140	0.9449 24	0.059 1.5	0.039 1.0	1.08 27.5	16,100	15,500	7,100	9,500	2.47	5,700	7,500
7019C	3.7402 95	5.7087 145	0.9449 24	0.059 1.5	0.039 1.0	1.10 28.0	16,500	16,500	6,800	9,000	2.60	5,400	7,100
7020C	3.9370 100	5.9055 150	0.9449 24	0.059 1.5	0.039 1.0	1.12 28.5	16,900	17,400	6,400	8,600	2.69	5,100	6,800
7021C	4.1339 105	6.2992 160	1.0236 26	0.079 2.0	0.039 1.0	1.22 31.0	19,800	20,100	6,100	8,100	3.37	4,800	6,400
7022C	4.3307 110	6.6929 170	1.1024 28	0.079 2.0	0.039 1.0	1.30 33.0	22,700	22,800	5,800	7,700	4.23	4,600	6,100
7024C	4.7244 120	7.0866 180	1.1024 28	0.079 2.0	0.039 1.0	1.34 34.0	23,200	24,300	5,300	7,100	4.74	4,200	5,600
7026C	5.1181 130	7.8740 200	1.2992 33	0.079 2.0	0.039 1.0	1.52 38.5	29,000	31,000	4,900	6,500	7.14	3,800	5,100
7028C	5.5118 140	8.2677 210	1.2992 33	0.079 2.0	0.039 1.0	1.57 40.0	29,700	32,500	4,500	6,000	7.58	3,600	4,800
7030C	5.9055 150	8.8583 225	1.3780 35	0.083 2.1	0.043 1.1	1.67 42.5	34,000	38,000	4,200	5,600	10.7	3,300	4,400
7032C	6.2992 160	9.4488 240	1.4961 38	0.083 2.1	0.043 1.1	1.81 46.0	38,500	43,500	3,900	5,200	13.0	3,100	4,100
7034C	6.6929 170	10.2362 260	1.6535 42	0.083 2.1	0.043 1.1	1.97 50.0	46,000	52,500	3,700	4,900	17.4	2,900	3,900
7036C	7.0866 180	11.0236 280	1.8110 46	0.083 2.1	0.043 1.1	2.13 54.0	54,000	65,500	3,400	4,600	22.0	2,700	3,600
7038C	7.4803 190	11.4173 290	1.8110 46	0.083 2.1	0.043 1.1	2.17 55.0	55,500	69,000	3,200	4,300	23.6	2,600	3,400
7040C	7.8740 200	12.2047 310	2.0079 51	0.083 2.1	0.043 1.1	2.34 59.5	62,000	80,000	3,100	4,100	30.4	2,400	3,200



15°
Contact
Angle

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

Units: **INCHES**
Millimeters



**SERIES
72C
High
Precision
Grade**

Suffix P5

- AFBMA RBEC 5 •
- ISO Class 5 •

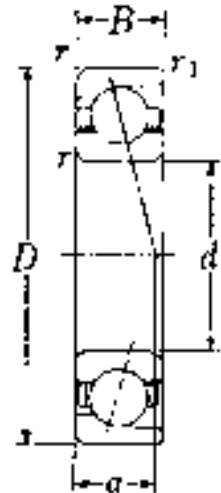
Suffix P4

- AFBMA ABEC 7 •
- ISO Class 4 •

Suffix P2

- AFBMA ABEC 9 •
- ISO Class 2 •

Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>rI</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7200C	0.3937 10	1.1811 30	0.3543 9	0.024 0.6	0.012 0.3	0.28 7.0	1,220	595	41,000	55,000	0.037	32,000	43,000
7201C	0.4724 12	1.2598 32	0.3937 10	0.024 0.6	0.012 0.3	0.31 8.0	1,590	780	36,000	49,000	0.049	29,000	38,000
7202C	0.5906 15	1.3780 35	0.4331 11	0.024 0.6	0.012 0.3	0.35 9.0	2,020	1,010	32,000	42,000	0.068	25,000	33,000
7203C	0.6693 17	1.5748 40	0.4724 12	0.024 0.6	0.012 0.3	0.39 10.0	2,510	1,310	29,000	38,000	0.106	23,000	30,000
7204C	0.7874 20	1.8504 47	0.5512 14	0.039 1.0	0.024 0.6	0.45 11.5	3,300	1,840	25,000	34,000	0.181	20,000	27,000
7205C	0.9843 25	2.0472 52	0.5906 15	0.039 1.0	0.024 0.6	0.49 12.5	3,750	2,300	21,000	28,000	0.249	17,000	22,000
7206C	1.1811 30	2.4409 62	0.6299 16	0.039 1.0	0.024 0.6	0.55 14.0	5,200	3,300	18,000	24,000	0.395	14,000	19,000
7207C	1.3780 35	2.8346 72	0.6693 17	0.043 1.1	0.024 0.6	0.61 15.5	6,850	4,500	16,000	21,000	0.578	13,000	17,000
7208C	1.5748 40	3.1496 80	0.7087 18	0.043 1.1	0.024 0.6	0.67 17.0	8,150	5,650	14,000	19,000	0.752	11,000	15,000
7209C	1.7717 45	3.3465 85	0.7480 19	0.043 1.1	0.024 0.6	0.71 18.0	9,200	6,500	14,000	19,000	0.858	10,000	13,000
7210C	1.9685 50	3.5433 90	0.7874 20	0.043 1.1	0.024 0.6	0.77 19.5	9,650	7,150	12,000	15,000	0.963	9,100	12,000
7211C	2.1654 55	3.9370 100	0.8268 21	0.059 1.5	0.039 1.0	0.83 21.0	11,900	9,000	11,000	14,000	1.27	8,300	11,000
7212C	2.3622 60	4.3307 110	0.8661 22	0.059 1.5	0.039 1.0	0.89 22.5	14,400	11,100	9,700	13,000	1.66	7,700	10,000
7213C	2.5591 65	4.7244 120	0.9055 23	0.059 1.5	0.039 1.0	0.94 24.0	15,700	12,300	9,000	12,000	2.07	7,100	9,500
7214C	2.7559 70	4.9213 125	0.9449 24	0.059 1.5	0.039 1.0	0.98 25.0	17,100	13,500	8,300	11,000	2.34	6,600	8,800
7215C	2.9528 75	5.1181 130	0.9843 25	0.059 1.5	0.039 1.0	1.04 26.5	17,800	14,700	7,800	10,000	2.56	6,200	8,200
7216C	3.1496 80	5.5118 140	1.0236 26	0.079 2.0	0.039 1.0	1.08 27.5	20,900	17,400	7,300	9,700	3.04	5,800	7,700
7217C	3.3465 85	5.9055 150	1.1024 28	0.079 2.0	0.039 1.0	1.18 30.0	23,400	20,300	6,900	9,100	3.88	5,400	7,200
7218C	3.5433 90	6.2992 160	1.1811 30	0.079 2.0	0.039 1.0	1.24 31.5	27,600	23,500	6,500	8,600	4.76	5,100	6,800
7219C	3.7402 95	6.6929 170	1.2598 32	0.083 2.1	0.043 1.1	1.34 34.0	31,000	26,900	6,100	8,100	5.82	4,800	6,400
7220C	3.9370 100	7.0866 180	1.3386 34	0.083 2.1	0.043 1.1	1.42 36.0	33,500	28,500	5,800	7,700	6.99	4,600	6,100
7221C	4.1339 105	7.4803 190	1.4173 36	0.083 2.1	0.043 1.1	1.50 38.0	36,500	32,000	5,500	7,300	8.27	4,400	5,800
7222C	4.3307 110	7.8740 200	1.4961 38	0.083 2.1	0.043 1.1	1.57 40.0	39,500	36,000	5,200	6,900	9.72	4,100	5,500



15°
Contact
Angle



**SERIES
73C**

**High
Precision
Grade**

Suffix P5

- AFBMA RBEC 5 •
- ISO Class 5 •

Suffix P4

- AFBMA ABEC 7 •
- ISO Class 4 •

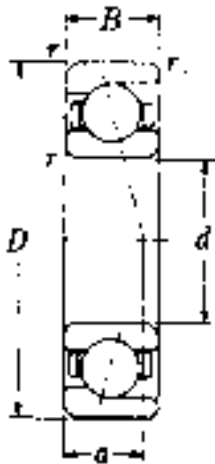
Suffix P2

- AFBMA ABEC 9 •
- ISO Class 2 •

Units: **INCHES**
Millimeters

SINGLE ROW ANGULAR CONTACT BALL BEARINGS

Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	Limiting Speeds (rpm)	
				<i>r</i>	<i>rI</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil		Grease	Oil
7302C	0.5906 15	1.6535 42	0.5118 13	0.039 1	0.024 0.6	0.41 10.5	2,990	1,540	28,000	38,000	0.130	23,000	30,000
7303C	0.6693 17	1.8504 47	0.5512 14	0.039 1	0.024 0.6	0.45 11.5	3,550	1,860	26,000	35,000	0.190	21,000	27,000
7304C	0.7874 20	2.0472 52	0.5906 15	0.043 1.1	0.024 0.6	0.49 12.5	1,450	2,240	23,000	31,000	0.260	18,000	24,000
7305C	0.9843 25	2.4409 62	0.6693 17	0.043 1.1	0.024 0.6	0.57 14.5	5,950	3,450	19,000	26,000	0.445	15,000	20,000
7306C	1.1811 30	2.8346 72	0.7480 19	0.043 1.1	0.024 0.6	0.65 16.5	7,250	4,550	16,000	22,000	0.690	13,000	17,000
7307C	1.3780 35	3.1496 80	0.8268 21	0.059 1.5	0.039 1.0	0.71 18.0	9,050	5,800	14,000	19,000	0.939	11,000	15,000
7308C	1.5748 40	3.5433 90	0.9055 23	0.059 1.5	0.039 1.0	0.79 20.0	11,100	7,250	13,000	17,000	1.36	10,000	13,000
7309C	1.7717 45	3.9370 100	0.9843 25	0.059 1.5	0.039 1.0	0.89 22.5	14,400	9,700	11,000	15,000	1.82	9,000	12,000
7310C	1.9685 50	4.3307 110	1.0630 27	0.079 2	0.039 1.0	0.96 24.5	16,900	11,600	10,000	14,000	2.31	8,200	11,000
7311C	2.1654 55	4.7244 120	1.1417 29	0.079 2	0.039 1.0	1.04 26.5	19,500	13,600	94,000	13,000	2.93	7,500	9,900
7312C	2.3622 60	5.1181 130	1.2205 31	0.083 2.1	0.043 1.1	1.12 28.5	22,300	15,800	8,700	12,000	3.70	6,900	9,200
7313C	2.5591 65	5.5118 140	1.2992 33	0.083 2.1	0.043 1.1	1.18 30.0	25,200	18,100	8,100	11,000	4.52	6,400	8,500
7314C	2.7559 70	5.9055 150	1.3780 35	0.083 2.1	0.043 1.1	1.26 32.0	28,400	20,700	7,500	10,000	5.47	5,900	7,900
7315C	2.9528 75	6.2992 160	1.4567 37	0.083 2.1	0.043 1.1	1.34 34.0	31,000	23,400	7,000	9,300	6.79	5,500	7,400
7316C	3.1496 80	6.6929 170	1.5354 39	0.083 2.1	0.043 1.1	1.42 36.0	33,500	26,200	6,500	8,700	8.14	5,200	6,900
7317C	3.3465 85	7.0866 180	1.6142 41	0.118 3.0	0.043 1.1	1.52 38.5	36,000	29,300	6,200	8,200	9.44	4,900	6,500
7318C	3.5433 90	7.4803 190	1.6929 43	0.118 3.0	0.043 1.1	1.59 40.5	41,000	35,500	5,800	7,800	11.0	4,600	6,100
7319C	3.7402 95	7.8740 200	1.7717 45	0.118 3.0	0.043 1.1	1.67 42.5	44,000	39,000	5,500	7,300	12.9	4,300	5,800
7320C	3.9370 100	8.4646 215	1.8504 47	0.118 3.0	0.043 1.1	1.75 44.5	50,000	46,500	5,200	6,900	15.7	4,100	5,500
7321C	4.1339 105	8.8583 225	1.9291 49	0.118 3.0	0.043 1.1	1.83 46.5	53,000	50,500	5,500	7,300	17.9	3,900	5,200
7322C	4.3307 110	9.4488 240	1.9685 50	0.118 3.0	0.043 1.1	1.91 48.5	56,000	54,500	4,700	6,300	20.9	3,700	5,000



15°
Contact
Angle

ANGULAR CONTACT BALL BEARINGS

Units: INCHES
Millimeters



**SERIES
BNT0
HSB0C**

**High Speed
Service**

Suffix P5
• AFBMA RBEC 5 •
• ISO Class 5 •

Suffix P4
• AFBMA ABEC 7 •
• ISO Class 4 •

Suffix P2
• AFBMA ABEC 9 •
• ISO Class 2 •

Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius		Load Center <i>a</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)
				<i>r</i>	<i>r1</i>		Dynamic <i>C</i>	Static <i>Co</i>	Grease	Oil	
BNT000	0.3937 10	1.0236 26	0.3150 8	0.012 0.3	0.006 0.15	0.26 6.5	845	325	48,000	64,000	0.037
BNT001	0.4724 12	1.1024 28	0.3150 8	0.012 0.3	0.006 0.15	0.26 6.5	930	390	43,000	57,000	0.043
BNT002	0.5906 15	1.2598 32	0.3543 9	0.012 0.3	0.006 0.15	0.30 7.5	1,070	500	38,000	50,000	0.063
BNT003	0.6693 17	1.3780 35	0.3937 10	0.012 0.3	0.006 0.15	0.33 8.5	1,330	605	34,000	46,000	0.083
BNT004	0.7874 20	1.6535 42	0.4724 12	0.024 0.6	0.012 0.3	0.39 10.0	1,800	890	30,000	40,000	0.145
BNT005	0.9843 25	1.8504 47	0.4724 12	0.024 0.6	0.012 0.3	0.43 11.0	2,010	1,090	25,000	34,000	0.171
BNT006	1.1811 30	2.1654 55	0.5118 13	0.039 1.0	0.024 0.6	0.49 12.5	2,600	1,510	22,000	29,000	0.265
BNT007	1.3780 35	2.4409 62	0.5512 14	0.039 1.0	0.024 0.6	0.53 13.5	3,300	2,010	19,000	26,000	0.372
BNT008	1.5748 40	2.6772 68	0.5906 15	0.039 1.0	0.024 0.6	0.57 14.5	3,550	2,340	17,000	23,000	0.464
BNT009	1.7717 45	2.9528 75	0.6299 16	0.039 1.0	0.024 0.6	0.63 16.0	4,200	2,830	15,000	21,000	0.600
HSB010C	1.9685 50	3.1496 80	0.6299 16	0.039 1.0	0.024 0.6	0.65 16.5	4,680	2,565	14,000	19,000	0.564
HSB011C	2.1654 55	3.5433 90	0.7087 18	0.043 1.1	0.024 0.6	0.73 18.5	5,085	3,060	13,000	17,000	0.875
HSB012C	2.3622 60	3.7402 95	0.7087 18	0.043 1.1	0.024 0.6	0.77 19.5	5,332	3,375	12,000	16,000	0.937
HSB013C	2.5591 65	3.9370 100	0.7087 18	0.043 1.1	0.024 0.6	0.79 20.0	5,400	3,555	11,000	15,000	0.997
HSB014C	2.7559 70	4.3307 110	0.7874 20	0.043 1.1	0.024 0.6	0.87 22.0	6,615	4,477	10,000	14,000	1.41
HSB015C	2.9528 75	4.5276 115	0.7874 20	0.043 1.1	0.024 0.6	0.89 22.5	7,087	5,040	9,500	13,000	1.50
HSB016C	3.1496 80	4.9213 125	0.8661 22	0.043 1.1	0.024 0.6	0.96 24.5	8,100	5,782	8,900	12,000	2.02
HSB017C	3.3465 85	5.1181 130	0.8661 22	0.043 1.1	0.024 0.6	1.00 25.5	8,212	6,030	8,400	11,000	2.11
HSB018C	3.5433 90	5.5118 140	0.9449 24	0.059 1.5	0.039 1.0	1.08 27.5	9,450	7,087	7,900	11,000	2.76
HSB019C	3.7402 95	5.7087 145	0.9449 24	0.059 1.5	0.039 1.0	1.10 28.0	9,562	7,312	7,500	10,000	2.87
HSB020C	3.9370 100	5.9055 150	0.9449 24	0.059 1.5	0.039 1.0	1.12 28.5	9,900	7,875	7,100	9,500	3.00
HSB021C	4.1339 105	6.2992 160	1.0236 26	0.079 2	0.039 1.0	1.22 31	11,400	9,100	6,700	9,000	3.81
HSB022C	4.3307 110	6.6929 170	1.1024 28	0.079 2	0.039 1.0	1.30 33	14,100	11,100	6,400	8,600	4.70
HSB024C	4.7244 120	7.0866 180	1.1024 28	0.079 2	0.039 1.0	1.34 34	14,200	11,600	5,900	7,900	5.03
HSB026C	5.1181 130	7.8740 200	1.2992 33	0.079 2	0.039 1.0	1.52 38.5	20,300	16,000	5,400	7,200	7.50
HSB028C	5.5118 140	8.2677 210	1.2992 33	0.079 2	0.039 1.0	1.57 40	21,000	17,300	5,000	6,700	8.11
HSB030C	5.9055 150	8.8583 225	1.3780 35	0.083 2.1	0.043 1.1	1.67 42.5	21,700	18,700	4,600	6,200	9.83
HSB032C	6.2992 160	9.4488 240	1.4961 38	0.083 2.1	0.043 1.1	1.81 46	25,400	21,800	4,300	5,800	12.0
HSB034C	6.6929 170	10.2362 260	1.6535 42	0.083 2.1	0.043 1.1	1.97 50	29,000	25,000	4,100	5,400	16.3



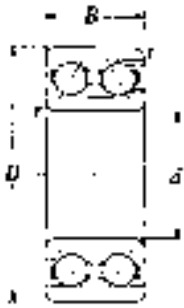
15°
Contact
Angle

NTN
SERIES
32
33
MAXIMUM
TYPE

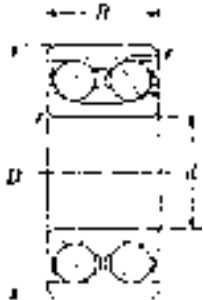
Units: **INCHES**
 Millimeters

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius <i>r</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)
					Dynamic <i>C</i>	Static <i>C₀</i>	Grease	Oil	
3200	0.3937 10	1.1811 30	0.5625 14.29	0.024 0.6	1,890	1,460	14,000	19,000	0.112
3201	0.4724 12	1.2598 32	0.6250 15.88	0.024 0.6	1,900	1,510	13,000	17,000	0.132
3202	0.5906 15	1.3780 35	0.6250 15.88	0.024 0.6	2,500	2,040	11,000	15,000	0.152
3203	0.6693 17	1.5748 40	0.6875 17.46	0.024 0.6	3,200	2,660	9,900	13,000	0.218
3204	0.7874 20	1.8504 47	0.8125 20.64	0.039 1	3,950	3,400	8,800	12,000	0.366
3205	0.9843 25	2.0472 52	0.8125 20.64	0.039 1	4,350	4,150	7,300	9,800	0.403
3206	1.1811 30	2.4409 62	0.9375 23.81	0.039 1	6,250	6,150	6,300	8,400	0.668
3207	1.3780 35	2.8346 72	1.0625 26.99	0.043 1.1	8,400	8,550	5,500	7,400	1.01
3208	1.5748 40	3.1496 80	1.1875 30.16	0.043 1.1	9,100	10,100	4,900	6,600	1.38
3209	1.7717 45	3.3465 85	1.1875 30.16	0.043 1.1	10,400	11,700	4,400	5,900	1.49
3210	1.9685 50	3.5433 90	1.1875 30.16	0.043 1.1	11,800	13,400	4,000	5,300	1.54
3211	2.1654 55	3.9370 100	1.3125 33.34	0.059 1.5	14,800	17,200	3,600	4,900	2.36
3212	2.3622 60	4.3307 110	1.4375 36.51	0.059 1.5	15,800	19,800	3,400	4,500	2.95
3213	2.5591 65	4.7244 120	1.5000 38.10	0.059 1.5	17,500	22,300	3,100	4,200	3.70
3214	2.7559 70	4.9213 125	1.5625 39.69	0.059 1.5	19,300	24,800	2,900	3,900	4.06
3215	2.9528 75	5.1181 130	1.6250 41.28	0.059 1.5	21,100	27,500	2,700	3,600	4.43
3216	3.1496 80	5.5118 140	1.7500 44.45	0.079 2	23,300	29,400	2,500	3,400	5.97
3217	3.3465 85	5.9055 150	1.9375 49.21	0.079 2	27,300	35,000	2,400	3,200	7.67
3218	3.5433 90	6.2992 160	2.0625 52.39	0.079 2	30,500	38,000	2,200	3,000	9.35
3219	3.7402 95	6.6929 170	2.1875 55.56	0.083 2.1	32,500	41,500	2,100	2,800	11.2
3220	3.9370 100	7.0866 180	2.3750 60.33	0.083 2.1	42,500	52,500	2,000	2,700	13.0
3302	0.5906 15	1.6535 42	0.7500 19.05	0.039 1	3,200	2,660	9,900	13,000	0.280
3303	0.6693 17	1.8504 47	0.8750 22.23	0.039 1	3,950	3,350	9,000	12,000	0.408
3304	0.7874 20	2.0472 52	0.8750 22.23	0.043 1.1	4,750	4,150	8,000	11,000	0.487
3305	0.9843 25	2.4409 62	1.0000 25.40	0.043 1.1	6,600	6,000	6,700	8,900	0.780
3306	1.1811 30	2.8346 72	1.1875 30.16	0.043 1.1	8,700	8,200	5,700	7,600	1.23
3307	1.3780 35	3.1496 80	1.3750 34.93	0.059 1.5	11,100	10,700	5,000	6,600	1.67
3308	1.5748 40	3.5433 90	1.4375 36.51	0.059 1.5	12,200	12,900	4,400	5,900	2.27
3309	1.7717 45	3.9370 100	1.5625 39.69	0.059 1.5	15,100	16,300	4,000	5,300	3.02
3310	1.9685 50	4.3307 110	1.7500 44.45	0.079 2	18,300	20,100	3,600	4,800	4.37
3311	2.1654 55	4.7244 120	1.9375 49.21	0.079 2	21,700	24,300	3,300	4,400	5.34
3312	2.3622 60	5.1181 130	2.1250 53.98	0.083 2.1	25,400	28,900	3,000	4,000	6.77
3313	2.5591 65	5.5118 140	2.3125 58.74	0.083 2.1	29,400	34,000	2,800	3,700	8.60
3314	2.7559 70	5.9055 150	2.5000 63.50	0.083 2.1	34,500	38,000	2,600	3,500	11.5
3315	2.9528 75	6.2992 160	2.6875 68.26	0.083 2.1	38,500	43,000	2,400	3,200	13.9



32



33

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

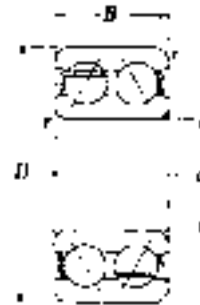
Units: INCHES
Millimeters



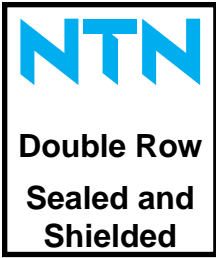
Bearing No.	Bore	O.D.	Width	Fillet Radius	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)
	<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i>	<i>Dynamic C</i>	<i>Static Co</i>	Grease	Oil	
5200	0.3937 10	1.1811 30	0.5630 14.3	0.024 0.6	1,560	855	14,000	19,000	0.108
5201	0.4724 12	1.2598 32	0.6260 15.9	0.024 0.6	2,050	1,140	13,000	17,000	0.126
5202	0.5906 15	1.3780 35	0.6260 15.9	0.024 0.6	2,260	1,360	11,000	15,000	0.141
5203	0.6693 17	1.5748 40	0.6890 17.5	0.024 0.6	2,870	1,770	9,900	13,000	0.212
5204	0.7874 20	1.8504 47	0.8110 20.6	0.039 1	4,300	2,710	8,800	12,000	0.337
5205	0.9843 25	2.0472 52	0.8110 20.6	0.039 1	4,650	3,200	7,300	9,800	0.386
5206	1.1811 30	2.4409 62	0.9370 23.8	0.039 1	6,450	4,600	6,300	8,400	0.631
5207	1.3780 35	2.8346 72	1.0630 27.0	0.043 1.1	8,500	6,250	5,500	7,400	0.961
5208	1.5748 40	3.1496 80	1.1890 30.2	0.043 1.1	9,600	7,250	4,900	6,600	1.30
5209	1.7717 45	3.3465 85	1.1890 30.2	0.043 1.1	10,800	8,300	4,400	5,900	1.41
5210	1.9685 50	3.5433 90	1.1890 30.2	0.043 1.1	11,500	9,400	4,000	5,300	1.52
5211	2.1654 55	3.9370 100	1.3110 33.3	0.059 1.5	14,200	11,900	3,600	4,900	2.17
5212	2.3622 60	4.3307 110	1.4370 36.5	0.059 1.5	16,100	13,100	3,400	4,500	2.80
5213	2.5591 65	4.7244 120	1.5000 38.1	0.059 1.5	18,700	16,300	3,100	4,200	3.46
5214	2.7559 70	4.9213 125	1.5630 39.7	0.059 1.5	20,400	17,900	2,900	3,900	3.97
5215	2.9528 75	5.1181 130	1.6260 41.3	0.059 1.5	20,300	18,100	2,700	3,600	4.19
5216	3.1496 80	5.5118 140	1.7480 44.4	0.079 2	23,800	21,400	2,500	3,400	5.27
5217	3.3465 85	5.9055 150	1.9370 49.2	0.079 2	25,100	23,900	2,400	3,200	6.75
5218	3.5433 90	6.2992 160	2.0630 52.4	0.079 2	31,500	29,000	2,200	3,000	8.22
5219	3.7402 95	6.6929 170	2.1890 55.6	0.083 2.1	35,500	33,000	2,100	2,800	10.7
5220	3.9370 100	7.0866 180	2.3740 60.3	0.083 2.1	40,000	37,500	2,000	2,700	13.1
5302	0.5906 15	1.6535 42	0.7480 19	0.039 1	3,850	2,260	9,900	13,000	0.291
5303	0.6693 17	1.8504 47	0.8740 22.2	0.039 1	2,870	1,770	9,000	12,000	0.212
5304	0.7874 20	2.0472 52	0.8740 22.2	0.043 1.1	4,650	2,850	8,000	11,000	0.478
5305	0.9843 25	2.4409 62	1.0000 25.4	0.043 1.1	6,850	4,600	6,700	8,900	0.798
5206	1.1811 30	2.8346 72	1.1890 30.2	0.043 1.1	8,900	6,200	5,700	7,600	1.22
5307	1.3780 35	3.1496 80	1.3740 34.9	0.059 1.5	11,100	7,850	5,000	6,600	1.69
5308	1.5748 40	3.5433 90	1.4370 36.5	0.059 1.5	13,600	9,850	4,400	5,900	2.23
5309	1.7717 45	3.9370 100	1.5630 39.7	0.059 1.5	16,300	12,100	4,000	5,300	2.95
5310	1.9685 50	4.3307 110	1.7480 44.4	0.079 2	19,200	14,500	3,600	4,800	3.99
5311	2.1654 55	4.7244 120	1.9370 49.2	0.079 2	23,900	18,500	3,300	4,400	5.11
5312	2.3622 60	5.1181 130	2.1260 54.0	0.083 2.1	27,300	21,400	3,000	4,000	6.72
5313	2.5591 65	5.5118 140	2.3110 58.7	0.083 2.1	31,000	24,600	2,800	3,700	8.73
5314	2.7559 70	5.9055 150	2.5000 63.5	0.083 2.1	35,000	28,000	2,600	3,500	10.4
5315	2.9528 75	6.2992 160	2.6890 68.3	0.083 2.1	38,000	31,500	2,400	3,200	12.5



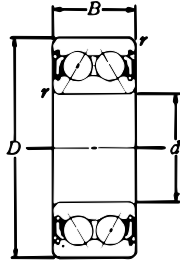
52



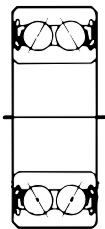
53



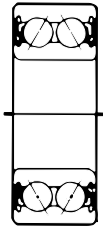
Units: **INCHES**
Millimeters



Type ZZ
with two shields



Type LLB
with two seals
(non-contact)



Type LLU
with two seals
(contact)

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

Bearing No.	Bore <i>d</i>	O.D. <i>D</i>	Width <i>B</i>	Fillet Radius <i>r</i>	Basic Load Ratings (lbs)		Limiting Speeds (rpm)		Weight (lbs)	
					Dynamic <i>C</i>	Static <i>C₀</i>	Grease			
							ZZ, LLM	LLD		Oil Z, LM
5200CZZ, LLB, LLU	0.3937 10	1.1811 30	0.5630 14.3	0.024 0.6	1,560	855	17,000	15,000	22,000	.108
5201CZZ, LLB, LLU	0.4724 12	1.2598 32	0.6260 15.9	0.024 0.6	1,710	1,010	15,000	12,000	20,000	.126
5202CZZ, LLB, LLU	0.5906 15	1.3780 35	0.6260 15.9	0.024 0.6	1,840	1,180	13,000	12,000	17,000	.141
5203CZZ, LLB, LLU	0.6693 17	1.5748 40	0.6890 17.5	0.024 0.6	2,430	1,590	11,000	10,000	15,000	.212
5204CZZ, LLB, LLU	0.7874 20	1.8504 47	0.8110 20.6	0.039 1	3,550	2,280	10,000	9,000	13,000	.337
5205CZZ, LLB, LLU	0.9843 25	2.0472 52	0.8110 20.6	0.039 1	4,100	2,970	8,500	7,500	11,000	.386
5206CZZ, LLB, LLU	1.1811 30	2.4409 62	0.9370 23.8	0.039 1	5,850	4,400	7,100	6,300	9,500	.631
5207CZZ, LLB, LLU	1.3780 35	2.8346 72	1.0630 27.0	0.043 1.1	7,400	5,500	6,300	5,300	8,500	.961
5208CZZ, LLB, LLU	1.5748 40	3.1496 80	1.1890 30.2	0.043 1.1	9,050	7,150	5,600	4,800	7,100	1.30
5303CZZ, LLB, LLU	0.6693 17	1.8504 47	0.8740 22.2	0.039 1	4,250	2,670	10,000	9,500	13,000	.399
5305CZZ, LLB, LLU	0.9843 25	2.4409 62	1.0000 25.4	0.043 1.1	5,950	4,050	7,500	6,300	10,000	.798
5306CZZ, LLB, LLU	1.1811 30	2.8346 72	1.1890 30.2	0.043 1.1	7,400	5,450	6,300	5,300	8,500	1.22
5307CZZ, LLB, LLU	1.3780 35	3.1496 80	1.3740 34.9	0.059 1.5	11,100	7,850	5,600	4,800	7,500	1.69
5308CZZ, LLB, LLU	1.5748 40	3.5433 90	1.4370 36.5	0.059 1.5	12,400	9,000	5,300	4,500	6,700	2.23