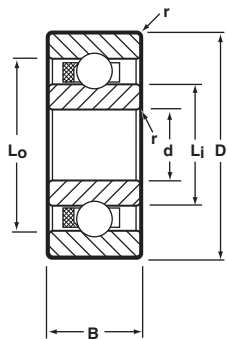


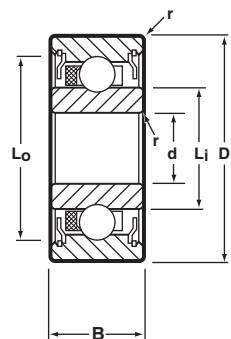




## Radial (continued)



**Open  
Machined Cage**



**2 Shields  
Machined Cage**

### Notes:

1. Inch to metric conversion—see page 57.
2. Basic part numbers shown below include code "SS" for AISI 440C stainless steel. If SAE 52100 chrome alloy steel is desired delete SS.
3. See page 7 for ABEC tolerances.
4. r=Maximum shaft or housing fillet radius that bearing corners will clear.
5. Please consult with factory for machined cage options.
6. Metric/inch conversions given for reference only.

■ Also available in flange version. Please consult with factory.

\*\* Load ratings are based on ABMA Standard #12.

| BASIC<br>P/N       | BORE<br>d |        | O.D.<br>D |        | WIDTH<br>B |        | LAND DIAMETER<br>(REFERENCE) |                | FILLET<br>RADIUS<br>r | BALL<br>COMPLEMENT |                        | LOAD RATINGS**<br>Lbs. |                          | N <sub>max</sub> /f <sub>n</sub><br>rpm/1000 |
|--------------------|-----------|--------|-----------|--------|------------|--------|------------------------------|----------------|-----------------------|--------------------|------------------------|------------------------|--------------------------|--|
|                    | INCH      | (mm)   | INCH      | (mm)   | INCH       | (mm)   | L <sub>i</sub>               | L <sub>o</sub> |                       | NO.<br>Z           | SIZE<br>D <sub>b</sub> | DYN.<br>C              | STATIC<br>C <sub>0</sub> |  |
| SSR-2270ZZW301MC   | .2756     | 7.000  | .8661     | 22.000 | .4060      | 10.312 | .463                         | .744           | .016                  | 7                  | 5/32                   | 569                    | 273                      | 26   |
| SSRI-8516MC■       | .3125     | 7.938  | .5000     | 12.700 | .1562      | 3.967  | .362                         | .450           | .005                  | 11                 | 1/16                   | 93                     | 43                       | 37   |
| SSRI-8516ZZSD505MC | .3125     | 7.938  | .5000     | 12.700 | .1562      | 3.967  | .362                         | .460           | .005                  | 11                 | 1/16                   | 93                     | 43                       | 37   |
| SSL-1680ZZW06MC    | .3150     | 8.000  | .6299     | 16.000 | .2362      | 6.000  | .409                         | .554           | .012                  | 9                  | 3/32                   | 170                    | 79                       | 32   |
| SSR-2280MC         | .3150     | 8.000  | .8661     | 22.000 | .2756      | 7.000  | .463                         | .704           | .016                  | 7                  | 5/32                   | 569                    | 273                      | 26   |
| SSR-2280ZZW301MC   | .3150     | 8.000  | .8661     | 22.000 | .4060      | 10.312 | .463                         | .744           | .016                  | 7                  | 5/32                   | 569                    | 273                      | 26   |
| SSRI-1038ZMC       | .3750     | 9.525  | .6250     | 15.875 | .1562      | 3.967  | .458                         | .557           | .010                  | 12                 | 1/16                   | 96                     | 53                       | 30   |
| SSRI-1038ZZW11MC   | .3750     | 9.525  | .6250     | 15.875 | .1960      | 4.978  | .458                         | .557           | .010                  | 12                 | 1/16                   | 96                     | 53                       | 30   |
| SSRI-1438MC■       | .3750     | 9.525  | .8750     | 22.225 | .2188      | 5.558  | .521                         | .741           | .016                  | 7                  | 5/32                   | 569                    | 273                      | 24   |
| SSRI-1438ZZMC■     | .3750     | 9.525  | .8750     | 22.225 | .2812      | 7.142  | .476                         | .783           | .016                  | 7                  | 5/32                   | 569                    | 273                      | 24   |
| SSRI-1212ZMC       | .5000     | 12.700 | .7500     | 19.050 | .1562      | 3.967  | .587                         | .687           | .010                  | 16                 | 1/16                   | 111                    | 71                       | 24   |
| SSRI-1212ZZW11MC   | .5000     | 12.700 | .7500     | 19.050 | .1960      | 4.978  | .587                         | .687           | .010                  | 16                 | 1/16                   | 111                    | 71                       | 24   |
| SSRI-1458ZMC       | .6250     | 15.875 | .8750     | 22.225 | .1562      | 3.967  | .713                         | .797           | .010                  | 18                 | 1/16                   | 116                    | 81                       | 20   |
| SSRI-1458ZZW11MC   | .6250     | 15.875 | .8750     | 22.225 | .1960      | 4.978  | .713                         | .797           | .010                  | 18                 | 1/16                   | 116                    | 81                       | 20   |
| SSRI-1634ZMC       | .7500     | 19.050 | 1.0000    | 25.400 | .1562      | 3.967  | .837                         | .922           | .010                  | 22                 | 1/16                   | 127                    | 99                       | 17   |

High Speed Specialty Bearings (HSSB) have been developed for applications that require precise running accuracy and high speed capability with the option of autoclavability.

These bearings are widely used in critical Dental/Medical Applications although they are ideally suited for any high speed (up to 500,000 RPM) application. The design of these bearings incorporated the advantage of super precision tolerances, balanced design, raceway super finishes and a variety of retainer options. All of the sizes listed represent current production sizes, although almost any part can be designed to take advantage of the operating characteristics of the HSSB's.