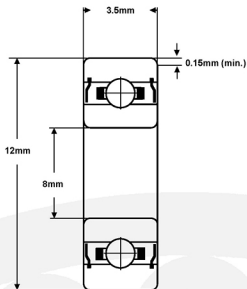


# Miniature Ball Bearing

**Part Number: MR128ZZ**  
**Size: 8 x 12 x 3.5 mm**



|                          |                                |
|--------------------------|--------------------------------|
| Material (rings & balls) | SAE52100 chrome steel          |
| Material (cage)          | pressed steel                  |
| Closures                 | Metal shields                  |
| Load rating (stat)       | 27 Kgf                         |
| Load rating (dyn)        | 54 Kgf                         |
| Speed Limit *            | 40,000 rpm                     |
| Standard Lubrication **  | Kyodo Yushi Multemp SRL grease |

\* with adequate lubrication

\*\* may vary

These bearings comply with EU ROHS and REACH regulations.

| RADIAL PLAY | MC1   | MC2   | MC3    | MC4    | MC5     | MC6     |
|-------------|-------|-------|--------|--------|---------|---------|
| (microns)   | 0 - 5 | 3 - 8 | 5 - 10 | 8 - 13 | 13 - 20 | 20 - 28 |

| TOLERANCE           | P0            | P6            | P5            |
|---------------------|---------------|---------------|---------------|
| Bore Deviation      | +0 / -0.008mm | +0 / -0.007mm | +0 / -0.005mm |
| OD Deviation        | +0 / -0.008mm | +0 / -0.007mm | +0 / -0.005mm |
| Width Deviation     | +0 / -0.120mm | +0 / -0.120mm | +0 / -0.040mm |
| Bore Variation      | 10            | 9             | 5             |
| OD Variation        | 10            | 9             | 5             |
| Width Variation     | 15            | 15            | 5             |
| Inner Radial Runout | 10            | 6             | 4             |
| Outer Radial Runout | 15            | 8             | 5             |