

DYNAROLL APPLICATION NO.: M0.6

RELEASE DATE:

10/20/2004

This high precision ball bearing has a diameter of only 2.0mm (.0787"). It is the smallest bearing of its type available and allows the design engineer considerable freedom in applications where space is at a premium.

WORLD'S SMALLEST DEEP GROOVE BALL BEARING!



ASSEMBLY APPLICATIONS

- Ultra-small Motors
- Biomedical Assemblies
- Miniature Robotics
- Semiconductor Equipment

BEARING BENEFITS

1/2 the diameter of the smallest previously-available bearing. High performance stainless steel ABEC-5 bearing is low noise EMQ (electric motor quality) type.

Contact a Dynaroll Bearing Engineer for details.

BEARING SPECIFICATIONS

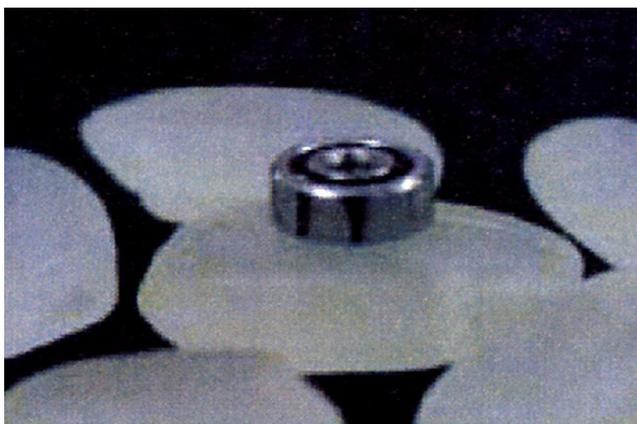
Item	Spec
Radial Play	0.005 ~ 0.008 microns
Ball Diameter:	0.3mm (0.0118")
Number of Balls	7
Retainer	Stainless steel crown

Item	Dynamic	Static
Load Rating	51N(5kgf)	25N(2.5kgf)
Material	Part Number	
Martensitic 400 series stainless steel	SM0.6XXXX	

XXXX = lubrication code
(see www.dynaroll.com)

BEARING DIMENSIONS

Item	Dimension
Outside diameter	2.0mm (0.0787")
Bore diameter	0.6mm (0.0236")
Width	0.8mm (0.0314")



SM0.6 on a grain of rice.....

This is the world's smallest deep groove ball bearing! Small enough to fit inside a standard 2.5mm catheter, it opens the door to many new possibilities in miniaturization of applications needing low-torque, precision and high speeds. Samples are now available for evaluation