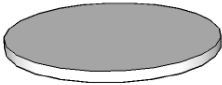


Crystal Standard Shapes and Tolerances

Single crystal PMN-PT offers advantages in that it has high coupling and high piezoelectric performance. The following sheet shows the range of shapes and sizes available.

Disc		Dimensional Range	Standard Tolerances	Fine Tolerances
	Diameter (mm)	5-30	±0.127	±0.025
	Thickness (mm)	0.1-12	±0.05	±0.009
	Metallization	Sputtered Cr/Au (500Å/2000Å) preferred. Others available on request.		
	Notes	Capability depends on aspect ratio. Size range, tolerances, and metallization tailored on request.		



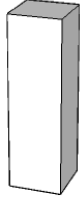

Rod		Dimensional Range	Standard Tolerances	Fine Tolerances
	Diameter (mm)	5-30	±0.127	±0.025
	Thickness (mm)	0.1-12	±0.05	±0.009
	Metallization	Sputtered Cr/Au (500Å/2000Å) preferred. Others available on request.		
	Notes	Capability depends on aspect ratio. Size range, tolerances, and metallization tailored on request.		

Plate		Dimensional Range	Standard Tolerances	Fine Tolerances
	Length (mm)	0.25-70	±0.127	±0.025
	Width (mm)	0.25-30	±0.127	±0.025
	Thickness (mm)	0.1-20	±0.05	±0.009
	Metallization	Sputtered Cr/Au (500Å/2000Å) preferred. Others available on request.		
	Notes	Capability depends on aspect ratio. Size range, tolerances, and metallization tailored on request. Largest square is 30x30mm. Plates of 70x12 mm size are possible.		

Rod		Dimensional Range	Standard Tolerances	Fine Tolerances
	Length (mm)	0.25-30	±0.127	±0.025
	Width (mm)	0.25-30	±0.127	±0.025
	Thickness (mm)	0.1-12	±0.05	±0.009
	Metallization	Sputtered Cr/Au (500Å/2000Å) preferred. Others available on request.		
	Notes	Capability depends on aspect ratio. Size range,		

		tolerances, and metallization tailored on request.
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Rings		Dimensional Range	Standard Tolerances	Fine Tolerances	
	Outer diameter (mm)	10-30	±0.127	±0.0127	
	Inner diameter (mm)	5 min.	±0.127	±0.025	
	Thickness (mm)	0.5-12	±0.05	±0.009	
	Metallization	Sputtered Cr/Au (500Å/2000Å) preferred. Others available on request. Electrodes on top and bottom faces only.			
	Notes	Capability depends on aspect ratio. Size range, tolerances, and metallization tailored on request.			