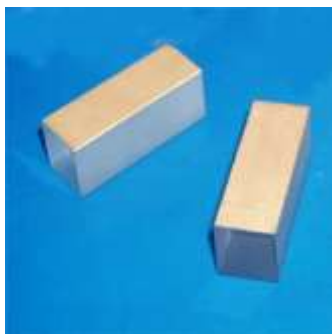# LiNbO3, LiTaO3, MgO:LiNbO3 Crystal and Devices

Lithium Niobate Crystal (LiNbO3), also known as LN crystal, and Lithium Tantalate Crystal (LiTaO3), known as LT crystal, are widely used in Nonlinear Optical applications, such as OPO, DFG and SHG etc., along with SAW, Electro-Optical(EO) and Pyroelectric applications.

Our LiNbO3 (LN) and LiTaO3 (LT) crystal feature:

- As thin as 1.25x1.25x40mm devices available
- MgO doped LiNbO3 crystal also available
- Massive production to support industrial customers
- Free Technical Support

LiNbO3 Crystal Boule   Au-coated LN Devices   LiTaO3 Crystal Boule

Our Standard Specifications for LN and LT Devices:

- Dimension tolerance: (W ± 0.1 mm) x (H ± 0.1 mm) x (L + 0.2 mm/-0.1mm)
- Transmitting wavefront distortion: less than $\lambda/4$ @ 633nm
- Clear aperture: > 90% central area
- Flatness: $\lambda/8$ @ 633nm
- Surface Quality: 10/5 to MIL-O-13830A
- Parallelism: better than 20 arc seconds
- Perpendicularity: 5 arc minutes
- Angle tolerance(degree): $D(\theta) < \pm 0.5$, $D(\phi) < \pm 0.5$
- Cr, Gold Electrode Coating available upon request

View LiNbO3 Crystal Properties and Applications

Click here to get a quote via e-mail

E-mail this link to a friend

We have the following items in stock, which are ready for shipping immediately.

Description	Quantity
MgO:LiNbO3 Type I, DFG600~670nm-1064nm, 10x10x30mm, with AR-coating at 600~670nm +1064nm on S1; and AR-coating at 1370~1770nm on S2	1
LiNbO3 Type I, DFG600~670nm-1064nm, 10x10x30mm, with AR-coating at 600~670nm +1064nm on S1; and AR-coating at 1370~1770nm on S2, 1-inch holder	1
MgO:LiNbO3 Type I, theta=54 degrees, 3x3x10mm, with AR-coating at 975nm+1175nm and 5000~7000nm	1
MgO:LiNbO3 wave guide, 5x0.02x20mm with 1mm substrate	1