6/4/2020 Lithium Niobate

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Lithium Niobate

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Single Crystal Menu

Quartz

Lithium Niobate

Specification Wafers Properties

Magnesium Doped

Black Lithium Niobate

Lithium Tantalate Langasite

Yttrium Vanadate

Gallium Orthophosphate

Gallium Nitride

Calcium Fluoride

Barium Fluoride

Lithium Fluoride

Silicon Carbide

Silicon on Sapphire

Silicon Windows

Germanium

Magnesium Fluoride

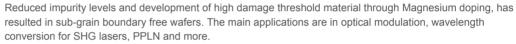
Lithium Niobate

Lithium niobate - LiNbO3 is a useful material for optoelectronics. Many technologies are based on this material which has unique piezo-electric, optical and photoelastic properties while exhibiting mechanical and chemical stability.

The combination of excellent electro-optical, acousto-optical and non linear optical properties make an attractive host material for application in integrated optics.

Optical Grade

Available up to 6" diameter, single crystal optical grade material has been developed as a next generation material.



Nd:MgLN, Er:LN and Fe:LN have been added for upcoming applications in holographic memories, devices for optic communications and next generation laser systems.

Other specifications can be provided

Doped wafers: Er:LN, Zn:LN and Fe:LN

Saw Applications

The most commonly used orientations are YZ-cut and 128Ű-cut most suitable for applications in television transmission and reception signal processing.

With the increased interest in high frequency telecommunications signal processing for EGSM, AMPS, 3G, Bluetooth and 802.11b, there has emerged a significant interest in rotated cuts where the velocity of the acoustic wave is high. Accordingly 171° and 106° doubly rotated wafers have shown an increased demand.

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