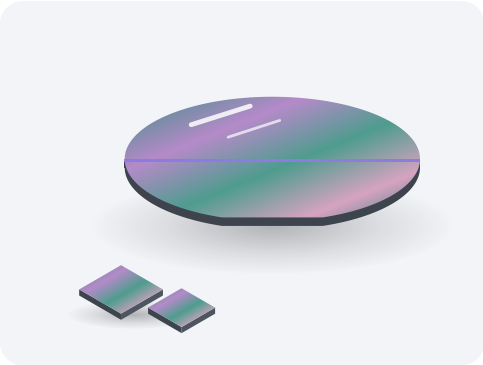
SERIES S36 · THIN-FILM LN

Thin-film lithium niobate on insulator (LNOI / LTOI)



A sub-micron single-crystal LN or LT film bonded onto silicon dioxide: the platform for low-loss integrated photonics, high-speed electro-optic modulators, frequency combs, quantum photonics and high-frequency acoustic resonators.

- Single-crystal film by ion slicing and bonding
- Surface roughness Ra < 0.5 nm, CMP polished
- Thickness map supplied on request
- Other film and oxide thicknesses on request

CONFIGURATIONS

Ref. No.	Product	Cut	Film	Buried oxide	Handle	Wafer	Price
S3601	LNOI	X-cut	300 nm	2 µm SiO_2	Si	4"	On request
S3602	LNOI	X-cut	300 nm	2 µm SiO_2	Si	6"	On request
S3603	LNOI	X-cut	300 nm	4.7 µm SiO_2	Si	4"	On request
S3604	LNOI	X-cut	300 nm	4.7 µm SiO_2	Si	6"	On request
S3605	LNOI	X-cut	600 nm	2 µm SiO_2	Si	4"	On request
S3606	LNOI	X-cut	600 nm	2 µm SiO_2	Si	6"	On request
S3607	LNOI	X-cut	600 nm	4.7 µm SiO_2	Si	4"	On request
S3608	LNOI	X-cut	600 nm	4.7 µm SiO_2	Si	6"	On request
S3609	LNOI	Z-cut	300 nm	2 µm SiO_2	Si	4"	On request
S3610	LNOI	Z-cut	300 nm	4.7 µm SiO_2	Si	4"	On request
S3611	LNOI	Z-cut	600 nm	2 µm SiO_2	Si	4"	On request
S3612	LNOI	Z-cut	600 nm	4.7 µm SiO_2	Si	4"	On request
S3613	LNOI	X-cut	300 nm	2 µm SiO_2	LN	4"	On request
S3614	LNOI	X-cut	300 nm	2 µm SiO_2	Fused quartz	4"	On request
S3615	LNOI	X-cut	600 nm	2 µm SiO_2	LN	4"	On request
S3616	LNOI	X-cut	600 nm	2 µm SiO_2	Fused quartz	4"	On request
S3617	MgO:LNOI	X-cut	300 nm	2 µm SiO_2	Si	4"	On request
S3618	MgO:LNOI	X-cut	600 nm	2 µm SiO_2	Si	4"	On request
S3619	MgO:LNOI	Z-cut	300 nm	2 µm SiO_2	Si	4"	On request
S3620	MgO:LNOI	Z-cut	600 nm	2 µm SiO_2	Si	4"	On request
S3621	LTOI	X-cut	300 nm	2 µm SiO_2	Si	4"	On request
S3622	LTOI	X-cut	600 nm	2 µm SiO_2	Si	4"	On request
S3623	Thick-film LN (bonded)	X-cut	1 – 50 µm (specify)	Bonded	Si	3"	On request
S3624	Thick-film LN (bonded)	X-cut	1 – 50 µm (specify)	Bonded	Si	4"	On request
S3625	Thick-film LN (bonded)	Z-cut	1 – 50 µm (specify)	Bonded	Si	3"	On request
S3626	Thick-film LN (bonded)	Z-cut	1 – 50 µm (specify)	Bonded	Si	4"	On request

Specifications are typical values; every lot ships with a Certificate of Conformance, and measured data are available on request. Prices on request.