

SAPPHIRE SUBSTRATES

Single Crystal Sapphire substrates are ideal for epitaxial deposition of GaN and other III-V and II-VI thin-films for use in the manufacture of bright blue and green LED's. C-axis [0001] oriented wafers are available in the sizes shown below. One side is highly polished to 1 nm or less and the second side is either fine ground or optically polished. The parts are available in lots of 10 or 25 in cassettes packaged in Class-100 clean room under nitrogen and are EPI ready.

Specifications

Crystal:

Sapphire Purity:

Orientation:

Dia. Tol.:

Thickness:

Thickness Tol.:

Primary Flat:

Flat length:

Front side Surface:

Back side Surface:

.

TTV:

BOW:

Laser mark:

Packaging:

.

Cleanliness:

50.8mm Dia

Single crystal Sapphire

>99.9%

0001 C-axis, +/- 0.2 deg.

+/- 0.25mm, fine grind OD

0.332 mm 0.432 mm

+/- 0.25mm

1120 A-axis +/- 0.3 deg

16.0 +/- 1.5mm

EPI polish, (Ra)< or = 1 nm

Fine Ground, R max 5-10 um

Optically Polished 80-50

< 25 um

< 20 um

upon request

Vacuum packed cassette, class 100 clean room,

under nitrogen

EPI ready

76.2mm Dia

Single crystal Sapphire

> 99.9%

0001 C-axis, +/- 0.2 deg.

+/- 0.25mm, fine grind OD

0.550 mm

+/- 0.25mm

1120 A-axis +/- 0.3 deg.

22.0 +/- 1.5mm

EPI polish, (Ra)< or = 1 nm

Fine Ground, R max 5-10 um

Optically Polished 80-50

< 30 um

< 30 um

upon request

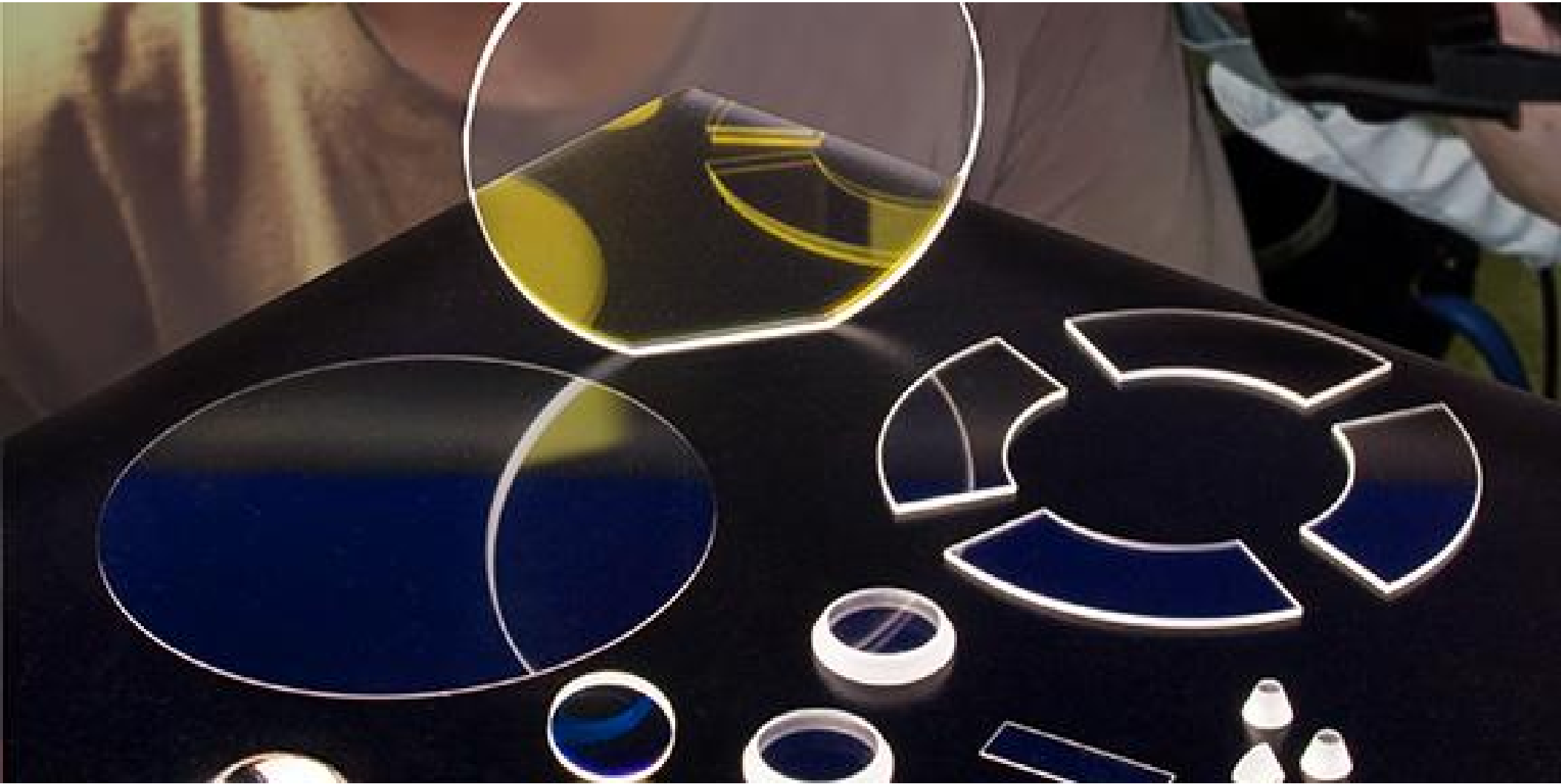
Vacuum packed cassette, class 100 clean room,

under nitrogen

EPI ready

SAPPHIRE SUBSTRATES ARE CUSTOM FABRICATED TO ORDER

Lead time is typically 1 week



Sapphire Substrates are custom fabricated to order and typically require a 1 week lead time. QUANTITY DISCOUNTS AVAILABLE.

CONTACT

SAPPHIRE SUBSTRATES

CATALOG NO.	SIZE	SURFACE	PRICE	ORDER
SCD1750-01A	50.8mm dia. x 0.332mm thk.	one side polish	\$240.00	<div><div>-1+</div><div>ADD TO CART</div></div>
SCD1750-02A	50.8mm dia. x 0.332mm thk.	double side polish	\$270.00	<div><div>-1+</div><div>ADD TO CART</div></div>
SCD1750-03A	50.8mm dia. x 0.432mm thk.	one side polish	\$150.00	<div><div>-1+</div><div>ADD TO CART</div></div>



CATALOG NO.	SIZE	SURFACE	PRICE	ORDER	
SCD1750-04A	50.8mm dia. x 0.432mm thk.	double side polish	\$240.00	<div>-1+</div>	ADD TO CART
SCD1750-05A	76.2mm dia. x 0.550mm thk.	one side polish	\$625.00	<div>-1+</div>	ADD TO CART
SCD1750-06A	76.2mm dia. x 0.550mm thk.	double side polish	\$765.00	<div>-1+</div>	ADD TO CART

MELLER OPTICS, INC.

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NEWS



SAPPHIRE WINDOWS & DOMES FOR HIGH-PRESSURE AUV APPLICATIONS

SHIPPING

Orders typically ship in 3-5 days. Please call the factory for expedited delivery or quantity discounts.

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