Intrinsic Crystal

Aspherical Lenses

product description

The complex surface profile of an asphere can significantly reduce or even eliminate spherical aberrations comparing to spherical lenses.

Hence, aspherical have been increasingly more widely explored and adopted during the optical design stage.

Aspheres can replace a complex multi-element spherical system to achieve a lighter and more compact optical system.

Applications :

The aspheric lens, with the curvature radius changing with the center axis, is used to improve optical quality, reduce optical elements, and reduce design costs.

The aspheric lens has a unique advantage over spherical lens, therefore, it has been widely used in optical instruments, images and optoelectronic industries, such as digital cameras, CD players and high-end microdevices.

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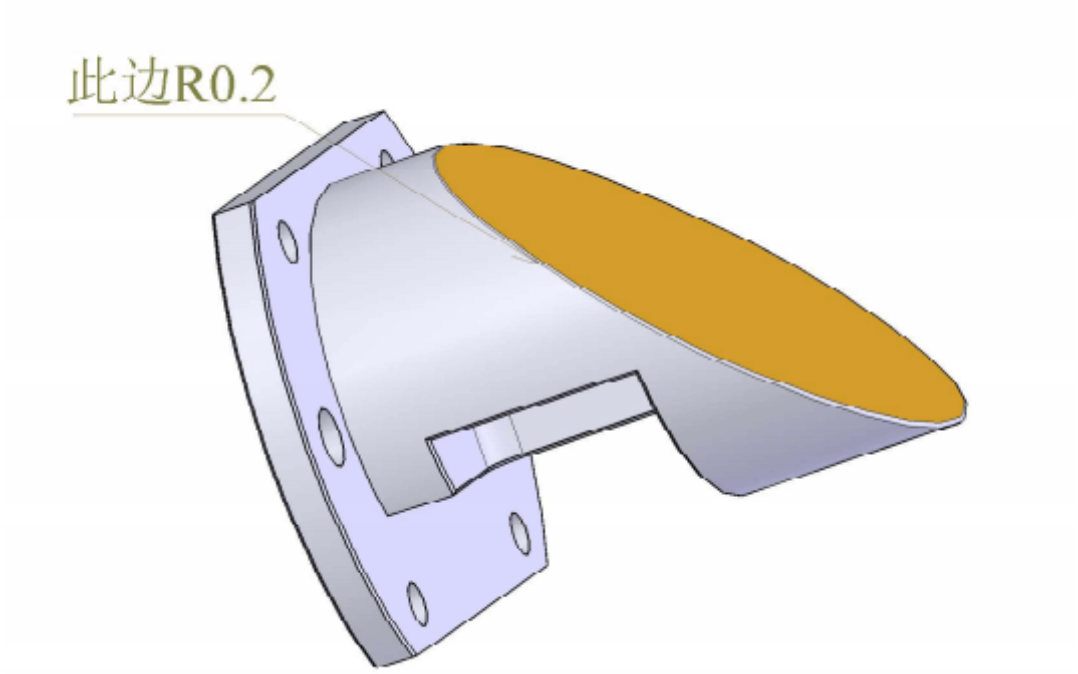

Product Advantage :

ICC is equipped with single point diamond turning(SPDT) machine – the machine grinds the optical material to

achieve ultra-high precision shape by leveraging the accuracy and repeatability of a computerized, numerically-controlled

fabrication capabilities are

Copper, aluminium,optical glass, ZnSe, ZnS, CaF2,Ge,Si,GaAs, and chalcogenide glass types. We also accept materials supplied by our clients

Processable calibres: 0 ~ 350mm， Ra<3nm， PV<0.2um

Product Parameters :

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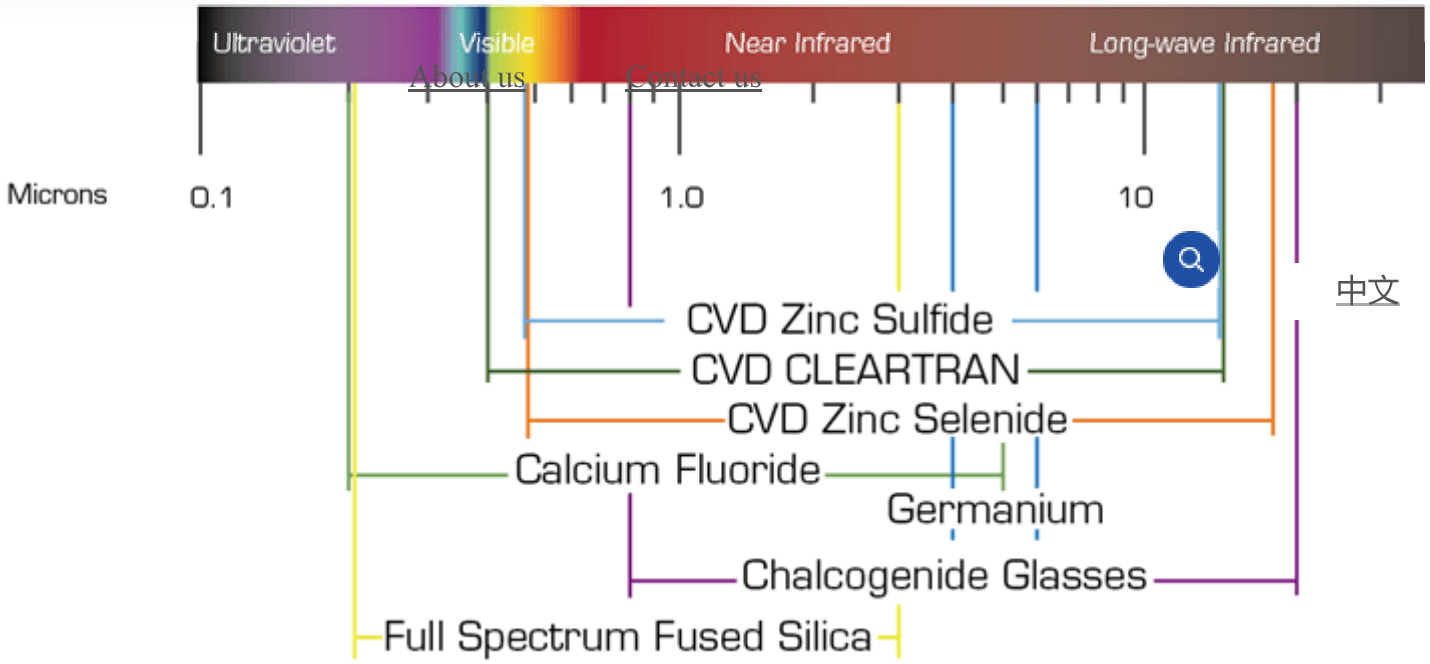

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Attribute	Minimum	Maximum
Diameter (mm)	3	250
Local Radius (mm)	-8 (Concave)	∞
Sag (mm)	0	50
Departure (mm)	0.01	20
Included Angle (°)	0	120
Form Error 0.5 – 2µm Higher Resolution Profilometry (2-D)1		
Attribute	Minimum	Maximum
Diameter (mm)3	3	250
Local Radius (mm)	-12 (Concave)	∞
Sag (mm)	0	25
Departure (mm)	0.01	20
Included Angle (°)	0	150
Form Error < 0.5µm Interferometry with Stitching (3-D)		
Attribute	Minimum	Maximum
Diameter (mm)3	3	250
Local Radius (mm)	-13 (Concave)	∞
Sag (mm)	0	25
Departure (mm)	0.002	1
Included Angle (°)	0	120+5

Form Error 0.5 – 2µm Higher Resolution Profilometry (2-D)1		
Attribute	Minimum	Maximum
Diameter (mm)3	3	80
Local Radius (mm)	-12 (Concave)	∞
Sag (mm)	0	252
Departure (mm)	0.01	20
Included Angle (°)	0	150

Form Error < 0.5µm Interferometry with Stitching (3-D)		
Attribute	Minimum	Maximum
Diameter (mm)3	3	80
Local Radius (mm)	-13 (Concave)	∞
Sag (mm)	0	252,4
Departure (mm)	0.002	1
Included Angle (°)	0	120+5

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Demand Notes

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