Infrared Optics Catalog 2006

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High Quality, Economic Solution

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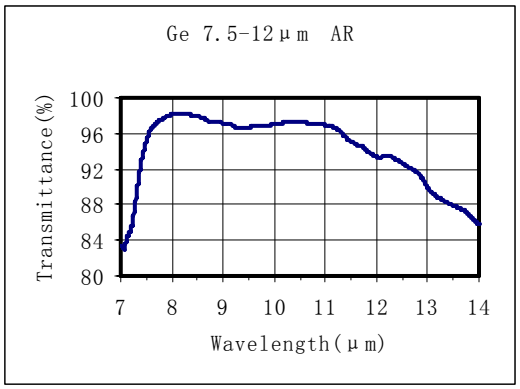
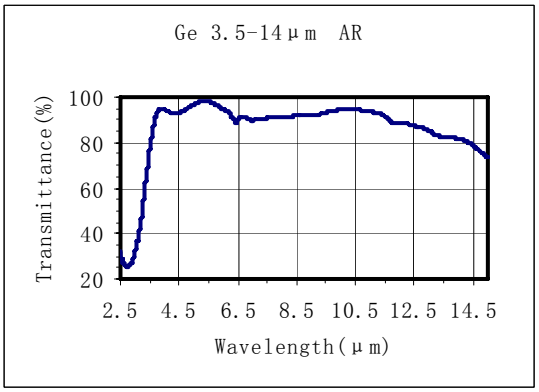
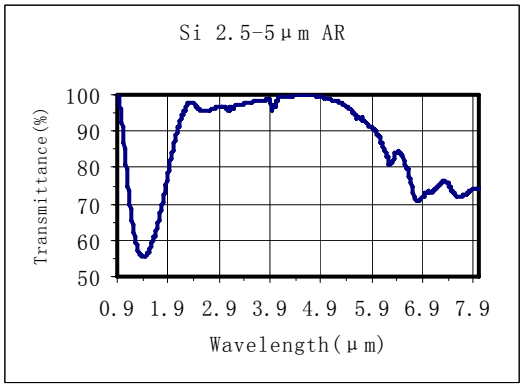
Infrared Optics

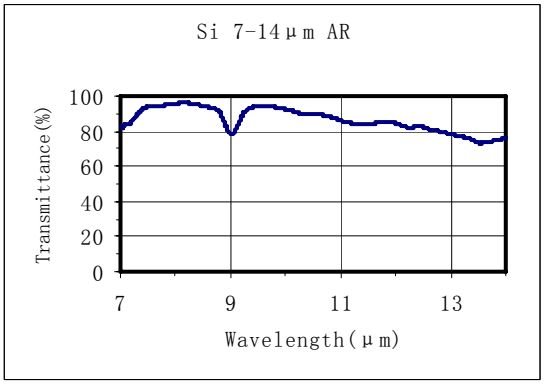
Amerina provides high performance infrared optical coatings, including anti-reflection, edge fliters, and CO_2 laser mirrors on Si, Ge, GaAs and ZnSe substrates, which are applied in high energy CO_2 lasers, infrared imaging and infrared sensor areas. We also do the OEM for high laser damage threshold coatings on ZnSe substrate. Amerina can provide high quality CVD-ZnSe to customers at competitive price.

A. Broadband AR on Ge, Si, ZnSe









Specifications	
Substrate	ZnSe, Si, Ge
Flatness	< λ/20 per 25mm @ 10.6μm
Transmission front distortion	λ/10 per 25mm @ 10.6μm
Surface Quality	40-20
Centration	3-5 arc mins
Dimension tolerance	+0.0/-0.20mm
Thickness tolerance	± 0.2mm

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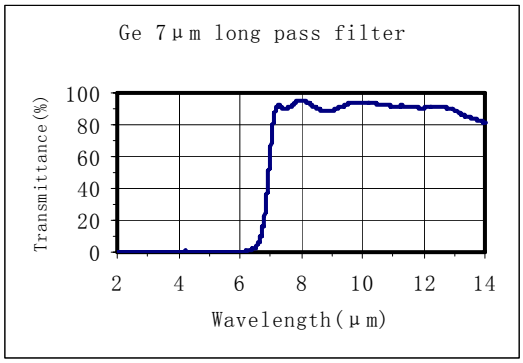
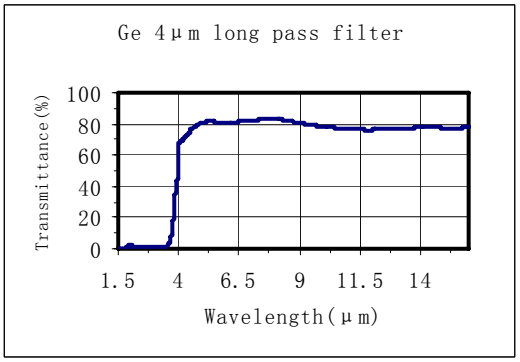
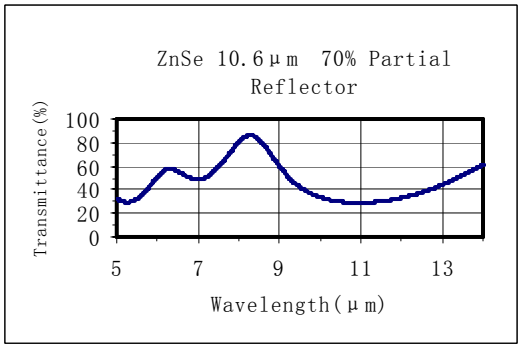
B. Edge filters on Ge, Si, ZnSe

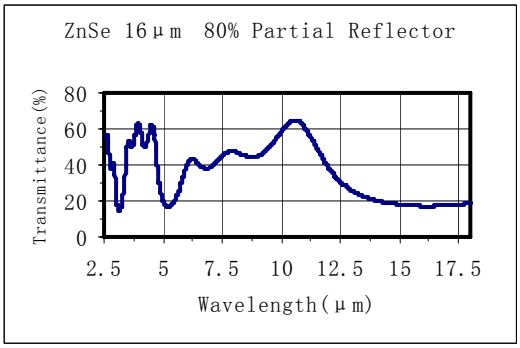




Specifications	
Substrate	ZnSe, Si, Ge
Flatness	< λ/20 per 25mm @ 10.6μm
Transmission front distortion	λ/10 per 25mm @ 10.6μm
Surface Quality	40-20
Centration	3-5 arc mins
Dimension tolerance	+0.0/-0.20mm
Thickness tolerance	± 0.2mm

C. Partial reflector on Ge, Si, ZnSe





Specifications	
Substrate	ZnSe, Si, Ge
Flatness	< λ/20 per 25mm @ 10.6μm
Transmission front distortion	λ/10 per 25mm @ 10.6μm
Surface Quality	40-20
Centration	3-5 arc mins
Dimension tolerance	+0.0/-0.20mm
Thickness tolerance	± 0.2mm

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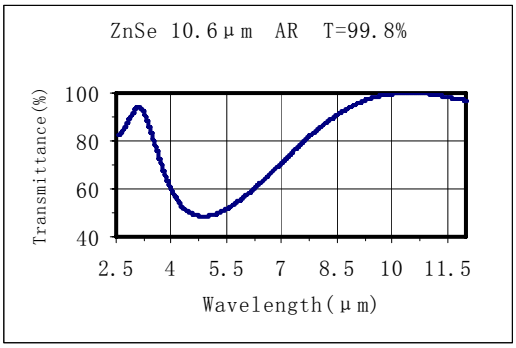
D. Single wavelength AR on Ge, Si, ZnSe



Specifications	
Substrate	ZnSe, Si, Ge
Flatness	< λ/20 per 25mm @ 10.6 μ m
Transmission front distortion	λ/10 per 25mm @ 10.6 μ m
Surface Quality	40-20
Centration	3-5 arc mins
Dimension tolerance	+0.0/-0.20mm
Thickness tolerance	± 0.2mm

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