

MADE IN AMERICA



APC

American Photonics

Infrared Optics

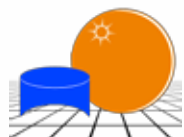
Solutions through technology.



CNC Optic
Fabrication



Thin-Film
Coating



Optical Design
& Engineering



Optical
Assembly



Optics
Powered
by DOW

www.americanphotonics.com

Phone: (941) 752-5811



American Photonics Infrared Optics

APC is a US manufacturer of laser optics and components for the OEM CO₂ laser industry. APC provides *Solutions through technology*. Our high quality optics include focusing lenses, mirrors, beam combiners, collimators, output couplers and custom designed parts.

All parts are made in America using DOW's grown in the USA Zinc Selenide (ZnSe); combined with APC's world-class thin-film coatings and designs to enhance optical properties. Our quality assurance program includes testing and documentation to ensure customer satisfaction. We deliver only products with high performance and the right specifications.

APC produces the highest quality precision products, we deliver on time and we keep costs down. We can design and produce the optics you require. Whether it is fabrication or coating, we can help you find solutions. We bring innovation at competitive prices and progress through technology.

We also stock replacement laser nozzles and other accessories for most high power CO₂ laser systems; built to OEM specifications.

For additional information, contact an APC representative.

Infrared Optics

Materials

Germanium (Ge), Zinc Selenide (ZnSe)
Zinc Sulfide (ZnS)
Silicon (Si), Gallium Arsenide (GaAs)

Products

Lenses, Windows, Mirrors, Beamsplitters,
Beam Combiners, Scan Lenses, Witness Samples,
Optical Assemblies, Beam Expanders,
Laser Resonator Optics, Polarizers

Coatings

Anti-Reflection Single Band (AR),
Anti-Reflection Broadband (BBAR),
Anti-Reflection Thorium Free, Beamsplitter,
High Reflector, Partial Reflector,
Beam Combiner, Polarization Sensitive

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Specifications

	American Photonics	Competitor I	Competitor II
<i>Diameter Tolerance</i>	+ 0.000" / - 0.004"	+ 0.000" / - 0.005"	+ 0.000" / - 0.004"
<i>Thickness Tolerance</i>	± 0.002"	± 0.010"	± 0.004"
<i>Power</i>	2FR	Not Listed	Not Listed
<i>Edge Thickness Variation</i>	< 0.0002"	≤ 0.002"	≤ 0.001"
<i>Surface Figure</i>	0.4F @ 633 nm	Varies Depending on Radius	0.5 F @ 633 nm
<i>Clear Aperture % of Lens</i>	DIA 90%	90%	90%
<i>Surface Quality</i>	≤ 20 - 10	20 - 10	Not Listed
<i>Total Transmission</i>	≥ 99.6%	Not Listed	>99.3%
<i>Absorbtion</i>	<0.17%	<0.20%	<0.20%



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