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097517 - Focus Lens Dia 1.5" (38.1mm)





Optics Competitive Advantage  
Standard Lens

	APC	Competitor 1	Competitor 2
Diameter Tolerance	$\pm 0.001" / \pm 0.004"$	$\pm 0.001" / \pm 0.001"$	$\pm 0.001" / \pm 0.004"$
Thickness Tolerance	$\pm 0.002"$	$\pm 0.001"$	$\pm 0.001"$
Power	20%	Not Listed	Not Listed
Edge Thickness Variation	$\pm 0.002"$	$\pm 0.002"$	$\pm 0.001"$
Surface Figure	0.47 @ 633 nm	Wave Dependency on Radius	0.5 @ 633 nm
Clear Aperture % of Lens	95%	95%	95%
Surface Quality	10 - 10	20 - 10	Not Listed
Total Transmission	$\geq 99.9\%$	Not Listed	$\geq 99.2\%$
Absorption	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.2\%$

Low Absorption Lens

	APC	Competitor 1	Competitor 2
Absorption	$\leq 0.1\%$	$\leq 0.1\%$	$\leq 0.1\%$

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097517 - Focus Lens. Dia. 1.5" (38.1mm), FL 7.5" (190.5mm), ET .291" (7.4mm).  
Suitable to be used with Trumpf(R) Laser System

American Photonics

\$248<sup>00</sup> ~~\$299<sup>00</sup>~~ **SAVE \$51**

Quantity

-	1	+
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**097517 - Focus Lens. Dia. 1.5" (38.1mm), FL 7.5" (190.5mm), ET .291" (7.4mm). Suitable to be used with Trumpf(R) Laser System**

**Dia: 1.5" (38.1mm) FL: 7.5" (190.5mm) ET: .291" (7.4mm)Material: ZnSe**

**OEM Reference PN#: 97517**

**APC PN#: ZM15750291**

**NEW APC PN#: LM-38.1-Z-190.5-7.40-AR**

**Diameter: 1.5" (38.1mm)**

**Focal Length: 7.5" (190mm)**

**Edge Thickness: .291" (7.4mm)**

**Reference PN#: 097517, 60697, 702232, 110110, 61983, 29100030**

**Reference PN#: 60697**

**Reference PN#: 61983**

**Reference PN#: HG10.168/H**

**Reference PN#: 702232**

**Reference PN#: TR300-7517**

**Reference PN#: RLT101/75S**

**Guaranteed Absorption < 0.15%**

Specifications	Standards	APC	II-VI
Effective Focal Length (EFL) Tolerance	±2%	±1%	±2%
Dimensional Tolerance	Diameter: +0.000"-0.005"	+0/-0.004"	+0/-0.005"

	Thickness: $\pm 0.010''$	$\pm 0.002''$	$\pm 0.010''$
Edge Thickness Variation (ETV)	$\leq 0.002''$	$\leq 0.0002''$ TENTHS	$\leq 0.002''$ THOUSANDTHS
Clear Aperture (polished)	90% of diameter	90%	90%
Surface Figure at $0.63\mu\text{m}$	Varies depending upon radius	$\lambda/5$ @ $632.8\mu\text{m}$	VARIES BY RADIUS
Scratch-Dig	20-10	$\leq 20-10$	20-10
AR Coating Reflectivity per Surface at $10.6\mu\text{m}$	$\leq 0.20\%$	$< 0.1\%$	0.1%

**Material: ZnSe laser grade**

**Machine Type: TruLaser Series 1000, TruLaser Series 2000/3000 [square cutting head], TruLaser Series 5000 [square cutting head], TruLaser Series 7000 Fiber, TruLaser Series 7000/8000 [square cutting head], TruLaser Tube Series 3000/5000, TruMatic Series 3000/6000**

**APC** replacements parts are approved by many OEMs.

To be used on high powered Co2 Laser cutting machines.

**Manufactured by automated CNC technology 100% made in USA.**

**Disclaimer: All parts advertised for sale are made by or for American Photonics.**

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Specifications	Standards	APC	II-VI
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Effective Focal Length (EFL) Tolerance	±2%	±1%	±2%
Dimensional Tolerance	Diameter: +0.000"-0.005"	+0/-0.004"	+0/-0.005"
	Thickness: ±0.010"	±0.002"	±0.010"
Edge Thickness Variation (ETV)	<= 0.002"	<=0.0002" TENTHS	<=0.002" THOUSANDTHS
Clear Aperture (polished)	90% of diameter	90%	90%
Surface Figure at 0.63μm	Varies depending upon radius	λ/5 @ 632.8μm	VARIES BY RADIUS
Scratch-Dig	20-10	<=20-10	20-10
AR Coating Reflectivity per Surface at 10.6μm	<= 0.20%	<0.1%	0.1%



## We Also Recommend

088114 - Focus Lens. Dia 1.5" (38.1mm), FL 5" (127mm), ET .291" (7.4mm). Suitable to be used with  
Trumpf(R) Laser System

**\$248<sup>00</sup>** ~~**\$299<sup>00</sup>**~~

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088114-HP - Focus Lens. Dia 1.5" (38.1mm), FL 5" (127.0mm), ET .291" (7.4mm). High Power Low Absorption. Suitable to Trumpf(R) Laser System

\$258<sup>00</sup> ~~\$350<sup>00</sup>~~

SAVE \$92



097517-HP. Focus Lens. Dia 1.5" (38.1mm), FL 7.5" (190.5mm), ET .291" (7.4mm). Suitable to Trumpf(R)  
Laser System

\$258<sup>00</sup> ~~\$350<sup>00</sup>~~

SAVE \$92

1330448 - Focus Lens. 175mm F/L, 50mm Dia, 9mm ET, Cut Lens. Does NOT have RFID chip. Suitable to be used with Trumpf(R) Laser System.

**\$420<sup>00</sup>** ~~**\$558<sup>00</sup>**~~

**SAVE \$138**

141972 - Focus Lens. Dia 1.5" (38.1mm) FL 9.0" (228.6mm) ET .291" (7.4mm) Meniscus ZnSe Suitable to be used with Trumpf(R) Laser System

\$229<sup>00</sup> ~~\$299<sup>00</sup>~~

SAVE \$70

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