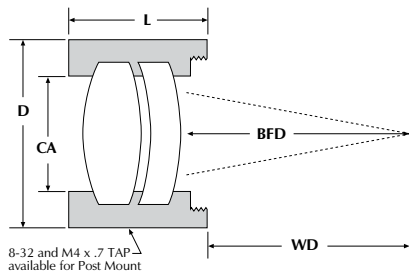
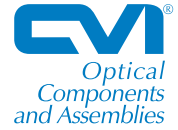
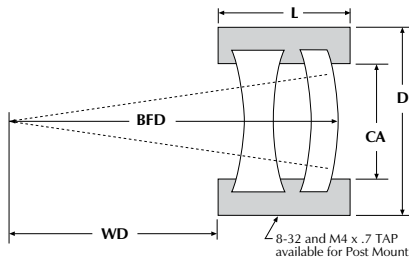


# High Energy / UV Laser Aplanats LAPQ, LANQ



LAPQ Positive High Energy / UV Laser Aplanats



LANQ Negative High Energy / UV Laser Aplanats

<b>Substrate Material</b>	UV grade fused silica
<b>Surface Quality</b>	All surfaces 10-5 CVI Laser Quality defined on page 430
<b>Design Wavelength</b>	248nm
<b>Housing Tolerance</b>	± 0.005"
<b>Antireflection Coating</b>	R ≤ 0.25% per surface, user specified
<b>Transmitted Wavefront Distortion</b>	λ/4 p-v over 95% of CA at 248nm
<b>Damage Threshold</b>	15J/cm <sup>2</sup> , 20ns, 20Hz at 1064nm

- Beam handling, interferometers, material ablation & cutting systems
- Air-spaced fused silica design for high energy or UV applications
- Diffraction limited aplanats corrected for spherical aberration and coma
- Mounts easily onto Post with 8-32 and M4 x .7 Tap

Also used as excimer focusing lenses, aplanats are corrected for spherical aberration and coma. Air-spaced fused silica design provides for significantly higher energy damage threshold performance. Parts are marked with an arrow on the barrel that points to the collimated light ► 131. Other focal lengths are available. Contact CVI for pricing and delivery.

## How To Order

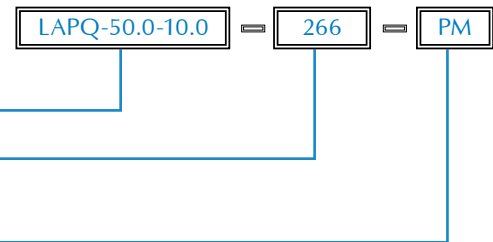
### Lens Part Number

Wavelength of AR Coating (nm) ► 46-49

248   257   266   308   325   355   1064

### Post Mount

PM



## UV Laser Aplanats

Lens Part Number	at 248nm			at 1064nm			Clear Aperture CA	Outside Diameter D	Length L
	Focal Length	Working Distance WD	Back Focal Distance BFD	Focal Length	Working Distance WD	Back Focal Distance BFD			
<b>Positive UV Laser Aplanats</b>									
LAPQ-5.0-1.0	5.0	2.2	3.7	5.6	2.7	4.2	1.0	25.4	8.0
LAPQ-10.0-2.0	10.0	7.2	8.5	11.4	8.5	9.8	2.0	25.4	8.0
LAPQ-15.0-3.0	15.0	13.9	13.6	17.0	15.8	15.5	3.0	25.4	8.0
LAPQ-25.0-5.0	25.0	22.1	23.0	28.3	25.3	26.2	5.0	25.4	8.0
LAPQ-50.0-10.0	50.0	42.9	47.2	56.7	49.4	53.7	10.0	50.8	10.2
LAPQ-75.0-15.0	75.0	65.1	71.8	84.9	74.8	81.5	15.0	50.8	12.7
LAPQ-100.0-20.0	100.0	87.8	97.0	113.1	100.8	110.0	20.0	50.8	15.9
LAPQ-125.0-25.0	125.0	108.5	118.8	140.5	124.4	134.9	25.0	50.8	15.9
LAPQ-150.0-30.0	150.0	139.0	145.0	169.6	158.6	164.6	30.0	76.2	15.9
LAPQ-200.0-40.0	200.0	185.2	194.4	227.6	210.9	220.1	40.0	76.2	22.2
LAPQ-250.0-50.0	250.0	222.5	241.0	282.6	254.5	273.0	50.0	76.2	25.4
LAPQ-300.0-60.0	300.0	281.8	286.2	339.2	320.9	325.3	60.0	101.6	30.5
LAPQ-500.0-100.0	500.0	472.2	479.0	565.3	538.2	545.0	100.0	127.0	44.5
<b>Negative UV Laser Aplanats</b>									
LANQ-5.0-1.0 -5.0	-5.0	3.7	6.4	-5.7	4.6	7.3	1.0	12.7	6.4
LANQ-10.0-2.0 -10.0	-10.0	8.7	11.4	-11.3	10.1	12.8	2.0	12.7	6.4
LANQ-15.0-3.0 -15.0	-15.0	13.4	16.6	-17.0	15.5	18.7	3.0	12.7	8.1
LANQ-25.0-5.0 -25.0	-25.0	23.4	26.6	-28.3	26.8	30.0	5.0	12.7	8.8
LANQ-50.0-10.0 -50.0	-50.0	46.4	52.4	-56.3	53.0	59.0	10.0	19.1	12.7

Unless otherwise noted, all measurements in mm.