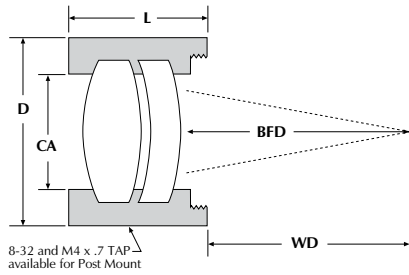
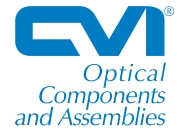
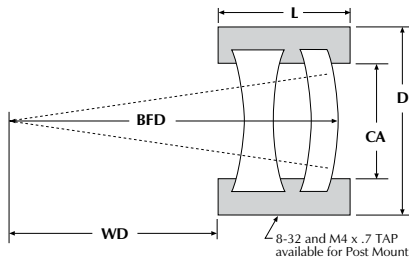


# Visible Laser Aplanats

# LAP, LAN



LAP Positive High Energy / UV Laser Aplanats



LAN Negative High Energy / UV Laser Aplanats

<b>Substrate Material</b>	SF11 glass
<b>Surface Quality</b>	All surfaces 40-20 per MIL-PRF-13830B except for LAP-762.0-152.0, which is 60-40
<b>Design Wavelength</b>	633nm
<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 633nm
<b>Damage Threshold</b>	4J/cm <sup>2</sup> , 20ns, 20Hz at 1064nm

- **Applications:** Beam handling, interferometers, material ablation & cutting systems
- **Air-spaced design for medium to high energy applications**
- **Diffraction limited performance**
- **Other focal lengths available, call for pricing and delivery information**
- **Mounts easily onto Post with 8-32 and M4 x .7 Tap**

Aplanats are corrected for spherical aberration and coma. The **LAP** and **LAN** are ideal for general purpose use in the visible and near-IR regions. For energies above 4J/cm<sup>2</sup> or for UV applications, the **LAPQ** and **LANQ** are recommended. Parts are marked with an arrow on the barrel that points to the collimated light ▶ **131**.

## How To Order

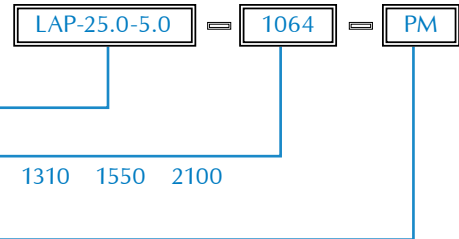
### Lens Part Number

### Wavelength of AR Coating (nm) ▶ 46-49

488 514.5 532 633 780 800 980 1054 1064 1070 1080 1090 1310 1550 2100

### Post Mount

PM



## Visible Laser Aplanats

Lens Part Number	Focal Length at 633nm	Back Focal Distance BFD	Clear Aperture CA	Original Housing			New Post Mount Housing		
				Working Distance WD	Outside Diameter D	Length L	Working Distance WD	Outside Diameter D	Length L
<b>Positive Laser Aplanats</b>									
LAP-5.0-1.0	5.0	3.8	1.0	3.8	10.2	6.5	2.2	25.4	8.0
LAP-10.0-2.0	10.0	8.7	2.0	4.7	10.2	7.2	7.2	25.4	8.0
LAP-15.0-3.0	15.0	13.7	3.0	10.0	12.7	8.2	13.9	25.4	8.0
LAP-25.0-5.0	25.0	23.0	5.0	20.0	12.7	7.8	22.1	25.4	8.0
LAP-50.0-10.0	50.0	47.8	10.0	42.4	19.0	12.7	42.9	50.8	10.2
LAP-75.0-15.0	75.0	72.5	15.0	68.0	25.4	11.8	65.1	50.8	12.7
LAP-100.0-20.0	100.0	96.5	20.0	90.6	28.6	12.7	87.8	50.8	15.9
LAP-125.0-25.0	125.0	120.1	25.0	112.0	34.9	19.1	114.1	50.8	15.9
LAP-150.0-30.0	150.0	145.4	30.0	141.7	38.1	14.7	139.0	76.2	15.9
LAP-200.0-40.0	200.0	193.0	40.0	187.2	50.8	20.3	185.2	76.2	22.2
LAP-250.0-50.0	250.0	242.0	50.0	236.2	63.5	25.4	222.5	76.2	25.4
LAP-300.0-60.0	300.0	291.2	60.0	283.1	76.2	25.4	281.8	101.6	30.5
LAP-500.0-100.0	500.0	491.9	100.0	487.4	114.3	29.0	472.2	127.0	44.5
<b>Negative Laser Aplanats</b>									
LAN-5.0-1.0	-5.0	6.5	1.0	2.4	12.7	6.4	3.7	12.7	6.4
LAN-10.0-2.0	-10.0	11.6	2.0	7.7	12.7	6.4	8.7	12.7	6.4
LAN-15.0-3.0	-15.0	17.1	3.0	12.2	12.7	8.1	13.4	12.7	8.1
LAN-25.0-5.0	-25.0	26.7	5.0	21.5	12.7	8.8	23.4	12.7	8.8
LAN-50.0-10.0	-50.0	53.3	10.0	44.0	19.1	12.7	52.9	19.1	12.7

Unless otherwise noted, all measurements in mm.