

LP8000: GERMANIUM DLC COATED LWIR PROTECTIVE WINDOW



SE StabEDGE®

40/20 40/20 Scratch/Dig

Heat Resistant

Scratch Resistant

Anti-Reflection

Useful Range: 7500-12500nm

Cut-On Wavelength 50% T: 5235nm

Tolerance: +/- 10nm

Peak Transmission: ≥ 90%

Surface Quality: 40/20

Thickness: 2mm

Available Sizes:

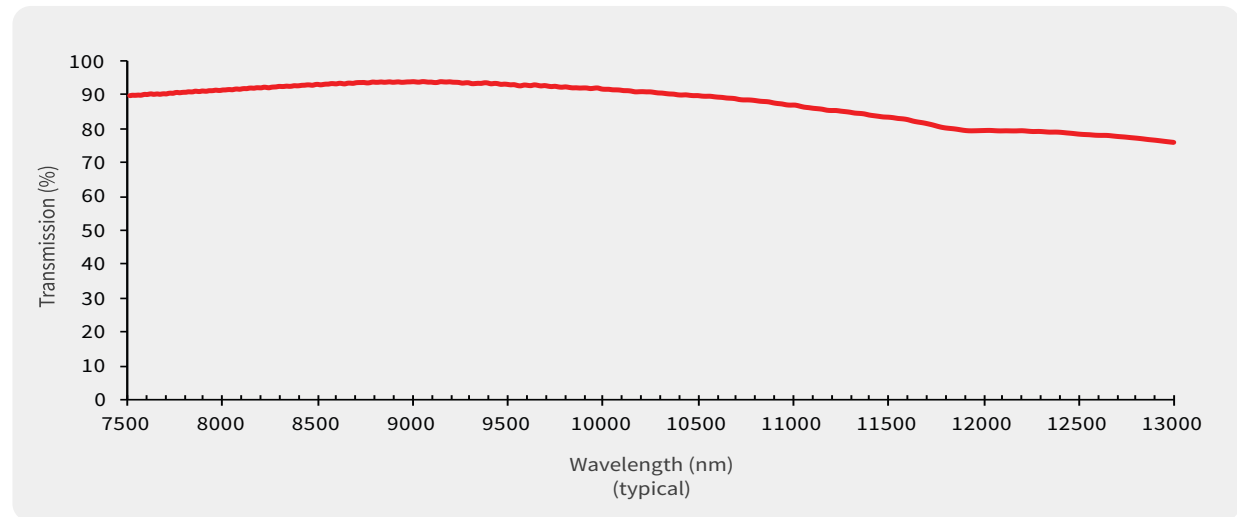
Part #	Thread Dia. x Pitch	Part #	Thread Dia. x Pitch
LP8000-13.25	M13.25 x P0.5	LP8000-48	M48 x P0.75
LP8000-22.5	M22.5 x P0.5	LP8000-49	M49 x P0.75
LP8000-25.5	M25.5 x P0.5	LP8000-52	M52 x P0.75
LP8000-27	M27 x P0.5	LP8000-55	M55 x P0.75
LP8000-30.5	M30.5 x P0.5	LP8000-58	M58 x P0.75
LP8000-34	M34 x P0.5	LP8000-62	M62 x P0.75
LP8000-35.5	M35.5 x P0.5	LP8000-67	M67 x P0.75
LP8000-37	M37 x P0.75	LP8000-72	M72 x P0.75
LP8000-37.5	M37.5 x P0.5	LP8000-77	M77 x P0.75
LP8000-39	M39 x P0.5	LP8000-82	M82 x P0.75
LP8000-40.5	M40.5 x P0.5	LP8000-86	M86 x P1.0
LP8000-43	M43 x P0.75	LP8000-95	M95 x P1.0
LP8000-46	M46 x P0.75	LP8000-105	M105 x P1.0

The MidOpt LP8000 Germanium Window has a DLC (diamond-like carbon) coating that is abrasion-resistant and can withstand harsh environments. It has a 7.5–12.5 micron useful range and is an ideal protective window for thermal camera enclosures. It also has an anti-reflection coating to maximize transmission when thermal imaging in the LWIR (long-wave infrared).

- Durable surface to withstand harsh environments
- Resistant to corrosion, chemicals, alkalis and most acids
- Protects against abrasive airborne particles, salt water and high humidity
- Transmits wavelengths in the LWIR
- Custom sizes available, up to 101mm in diameter
- Coated with a durable multi-layer anti-reflection coating

Applications

- Medical
- Defense/Space
- Automotive
- Thermal Imaging
- Flame Detection
- Pyroelectric/Thermopile



For more information, visit midopt.com/lp8000

LP8000 Transmission Data (typical)

Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)
7500	89.9	8300	92.3	9100	93.7	9900	92.0	10700	88.9	11500	83.4	12300	79.1
7520	89.7	8320	92.4	9120	93.6	9920	92.0	10720	88.6	11520	83.2	12320	79.1
7540	89.8	8340	92.5	9140	93.6	9940	91.8	10740	88.5	11540	83.0	12340	79.0
7560	89.9	8360	92.5	9160	93.9	9960	91.9	10760	88.5	11560	83.0	12360	79.0
7580	89.9	8380	92.7	9180	93.8	9980	92.0	10780	88.4	11580	82.9	12380	79.0
7600	90.1	8400	92.6	9200	93.8	10000	91.7	10800	88.3	11600	82.6	12400	79.0
7620	90.2	8420	92.8	9220	93.7	10020	91.6	10820	88.1	11620	82.2	12420	78.9
7640	90.1	8440	92.8	9240	93.7	10040	91.6	10840	88.0	11640	82.2	12440	78.7
7660	90.2	8460	92.9	9260	93.4	10060	91.5	10860	88.0	11660	82.0	12460	78.7
7680	90.1	8480	92.8	9280	93.5	10080	91.4	10880	87.9	11680	81.7	12480	78.6
7700	90.3	8500	93.0	9300	93.5	10100	91.2	10900	87.6	11700	81.4	12500	78.4
7720	90.4	8520	92.9	9320	93.3	10120	91.2	10920	87.4	11720	81.4	12520	78.4
7740	90.4	8540	93.0	9340	93.3	10140	91.1	10940	87.3	11740	81.1	12540	78.3
7760	90.6	8560	93.1	9360	93.4	10160	90.9	10960	87.0	11760	80.7	12560	78.2
7780	90.6	8580	93.3	9380	93.5	10180	90.9	10980	86.9	11780	80.3	12580	78.1
7800	90.7	8600	93.2	9400	93.5	10200	90.9	11000	86.9	11800	80.1	12600	78.0
7820	90.7	8620	93.4	9420	93.2	10220	90.9	11020	86.6	11820	80.1	12620	78.0
7840	90.8	8640	93.3	9440	93.3	10240	90.9	11040	86.6	11840	80.0	12640	78.0
7860	91.1	8660	93.4	9460	93.3	10260	90.7	11060	86.3	11860	79.8	12660	78.0
7880	91.0	8680	93.4	9480	93.1	10280	90.5	11080	86.2	11880	79.8	12680	77.8
7900	91.1	8700	93.5	9500	93.1	10300	90.5	11100	86.0	11900	79.5	12700	77.8
7920	91.0	8720	93.6	9520	92.9	10320	90.3	11120	86.0	11920	79.4	12720	77.7
7940	91.2	8740	93.6	9540	93.0	10340	90.3	11140	85.9	11940	79.4	12740	77.5
7960	91.2	8760	93.5	9560	92.7	10360	90.2	11160	85.7	11960	79.4	12760	77.5
7980	91.3	8780	93.6	9580	92.6	10380	90.2	11180	85.4	11980	79.4	12780	77.3
8000	91.3	8800	93.7	9600	92.8	10400	90.0	11200	85.3	12000	79.4	12800	77.2
8020	91.4	8820	93.7	9620	92.7	10420	89.9	11220	85.3	12020	79.4	12820	77.0
8040	91.5	8840	93.8	9640	92.9	10440	90.0	11240	85.2	12040	79.5	12840	77.0
8060	91.5	8860	93.7	9660	92.8	10460	89.8	11260	85.2	12060	79.4	12860	76.8
8080	91.7	8880	93.8	9680	92.6	10480	89.7	11280	85.0	12080	79.3	12880	76.8
8100	91.6	8900	93.7	9700	92.7	10500	89.8	11300	84.8	12100	79.3	12900	76.6
8120	91.8	8920	93.8	9720	92.5	10520	89.6	11320	84.6	12120	79.4	12920	76.6
8140	91.8	8940	93.7	9740	92.4	10540	89.5	11340	84.5	12140	79.3	12940	76.4
8160	92.0	8960	93.7	9760	92.5	10560	89.6	11360	84.5	12160	79.3	12960	76.2
8180	92.1	8980	93.8	9780	92.3	10580	89.4	11380	84.3	12180	79.3	12980	76.1
8200	92.1	9000	93.9	9800	92.2	10600	89.3	11400	84.0	12100	79.3	13000	76.0
8220	92.2	9020	93.8	9820	92.3	10620	89.2	11420	83.8	12220	79.4		
8240	92.2	9040	93.7	9840	92.0	10640	89.0	11440	83.6	12240	79.3		
8260	92.2	9060	93.9	9860	92.1	10660	89.0	11460	83.6	12260	79.1		
8280	92.3	9080	93.7	9880	92.0	10680	89.0	11480	83.5	12280	79.2		