

ZnS Lens Module 18.8mm f1.0mm (#550DLC)

- Possible to eliminate window by high strength and DLC coat
- Cost effective lens for high volume application
- Designed for uncooled IR sensors
- Optimized for the 8-12μm wavelength range



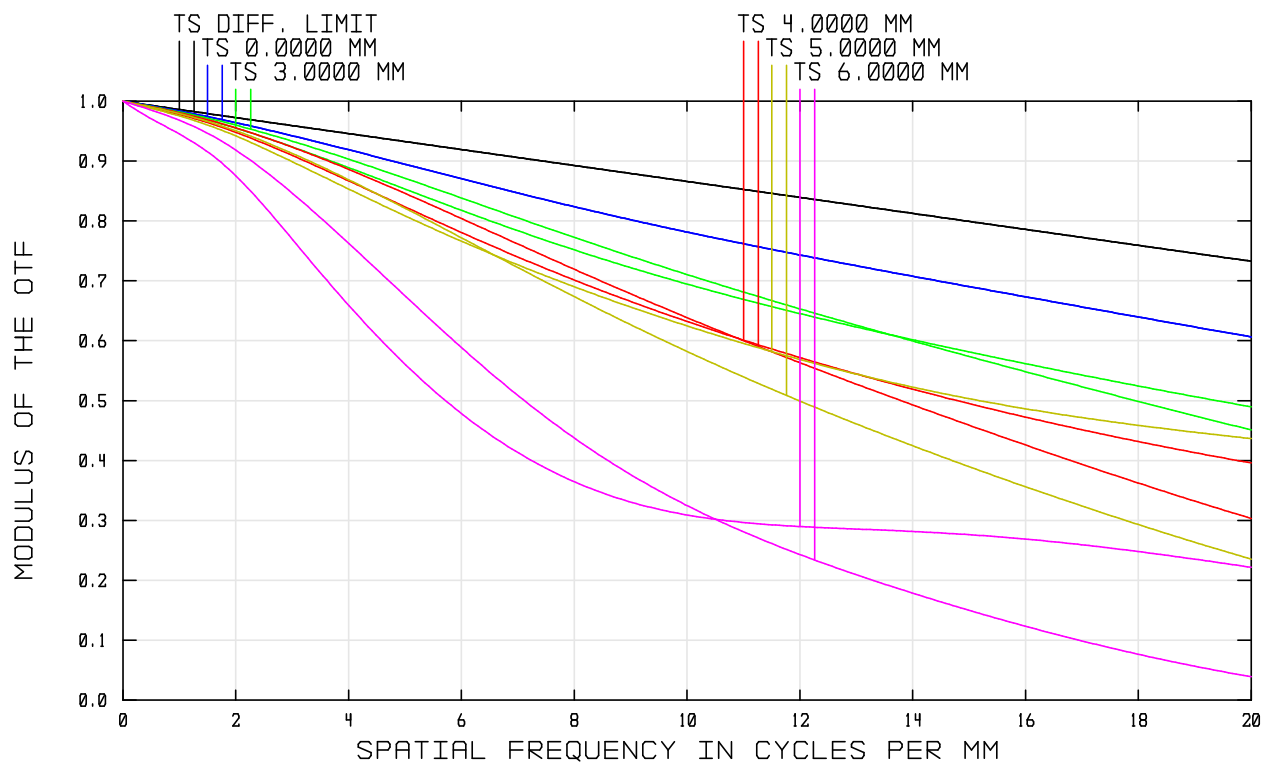
P/N	18.8mm f/1.0mm		(#550DLC)
Property		Value	Remarks
Lens material		Zinc Sulfide	
Optical	Focal Length	18.8mm	
	F/#	1.0	
	Horizontal Filed of View	32.9° (A) / 24.3° (B)	
	Image Circle	φ13.6mm	
	Flange Back(BFL)	9.3mm	Including windows
	Focus Range	0.7m to infinity	
	Focus Adjustment	Manual	
	Lens transmission (average)	0.73	wavelength 8-12μm
	1 st Surface Coating	DLC Coating*1	wavelength 8-12μm
Mechanical	Weight	46g	
	Lens Mount	Fixed adjustable	M34 × P0.5[mm]
Environmental	Operating Temperature	-40°C to +80°C	Athermalized
	Sealing	IP67	

*1 Environmental Test

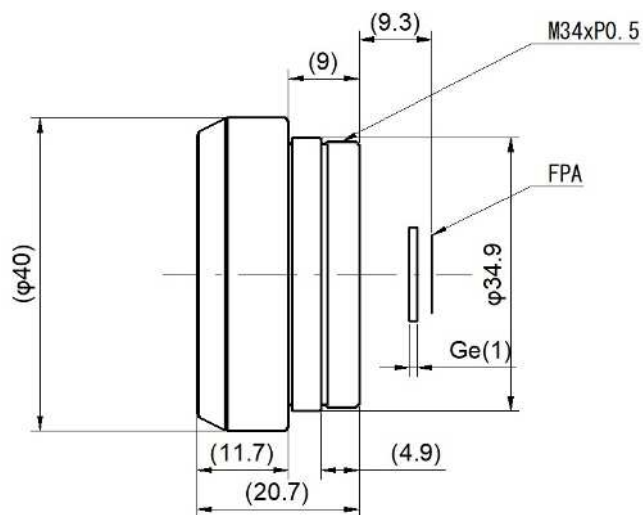
Adhesion	Tape Test	MIL-F-48616
Humidity	85°C/95% X240h	MIL-F-48616
Abrasion	Severe 20 stroke	MIL-F-48616
weatherability	UV+water X1000h	JIS D 0205 WAN1S
Sand and Dust test	13.3m/s, <150μm, ≥3h, 0.33g/m3	MIL-STD-810G 510.5

Type	Pitch	Pixels
A	17μm	640x480 (VGA)
B	25μm	320x240 (QVGA)

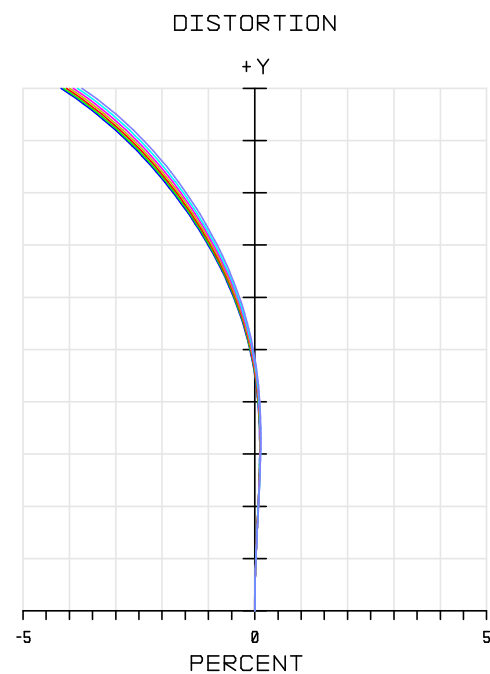
MTF Curves



Layout



Distortion



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