

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

- 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 AR		(#550AR)
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)	0.79	wavelength8-12μm
	Coating Type	AR Coating*1	wavelength8-12μm
Mechanical	Weight	46g	
	Lens Mount	Fixed adjustable	M34 × P0.5[mm]
Environmental	Operating Temperature	-40°C to +80°C	Athermalized

*1 Environmental Test (MIL-F-48616)

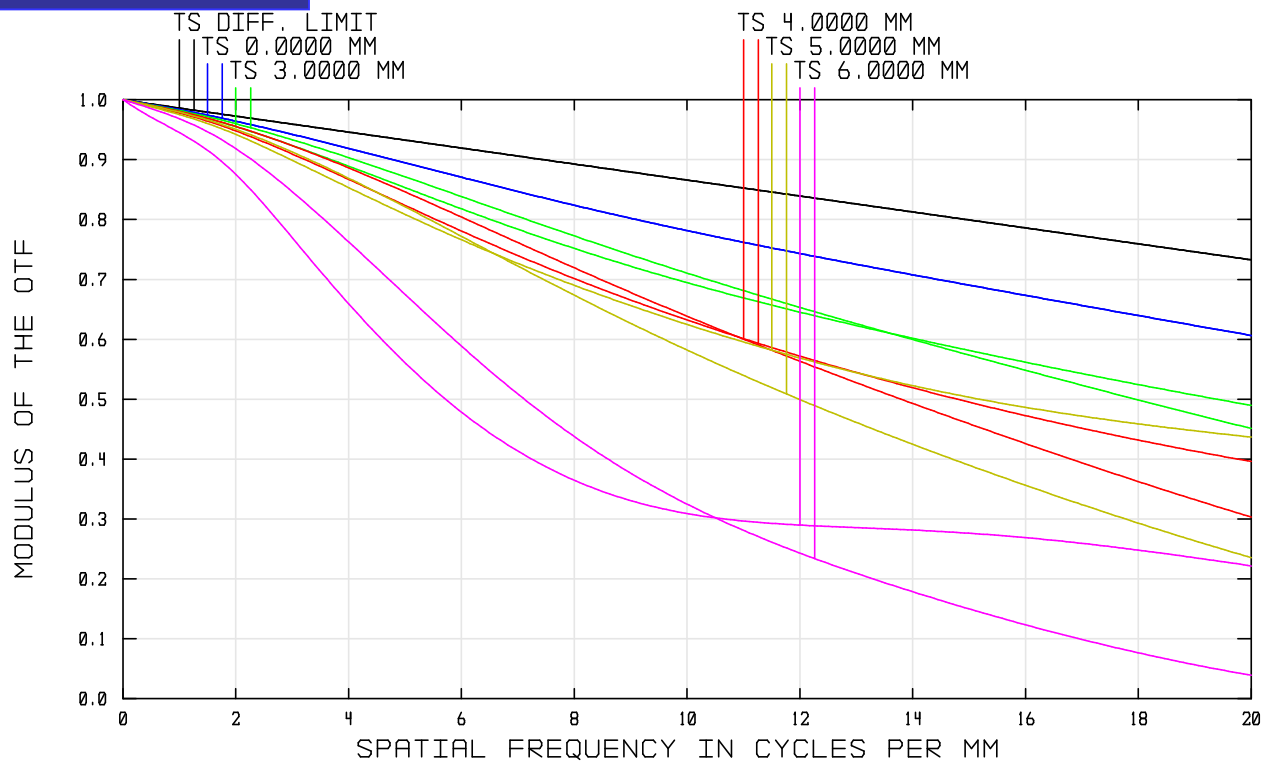
Adhesion	Tape Test
Humidity	85°C/95%X1000h
Abrasion	Severe 20 stroke
Temperature Shock	-40°C to 100°CX1000cycle
High/Low Temperature	100°CX750h/-57°CX570h

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

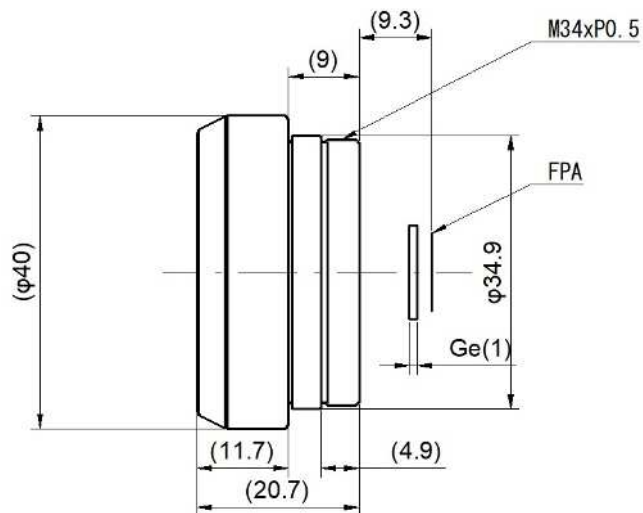
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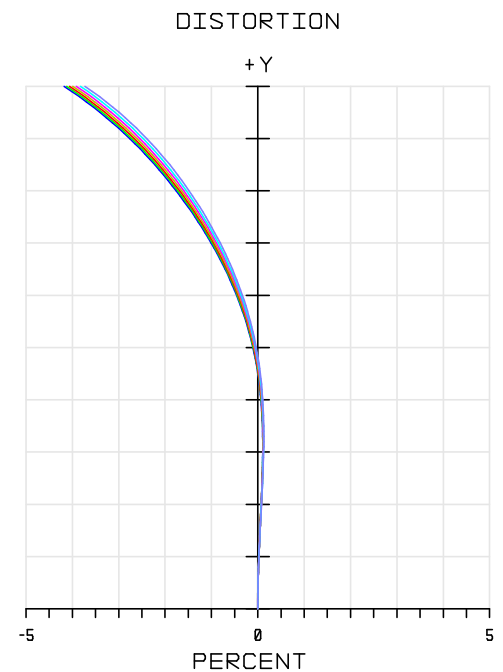
MTF Curves



Layout



Distortion



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