

ZnS Lens Module 13.0mm f1.1mm (#612DLC)

- 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	13.0mm f/1.1mm		(#612DLC)
Property		Value	Remarks
Lens material		Zinc Sulfide	
Optical	Focal Length	13.0mm	
	F/#	1.1	
	Horizontal Filed of View	50.3° (A) / 36.2° (B)	
	Image Circle	φ13.6mm	
	Flange Back(BFL)	9.1mm	Including windows
	Focus Range	0.7m to infinity	
	Focus Adjustment	Manual	
	Lens transmission (average)	0.70	wavelength 8-12μm
	1 st Surface Coating	DLC Coating*1	wavelength 8-12μm
Mechanical	Weight	38g	
	Lens Mount	Fixed adjustable	M34 × P0.5[mm]
Environmental	Operating Temperature	-40°C to +80°C	Athermalized
	Sealing	IP67	

*1 Environmental Test

Adhesion

Humidity

Abrasion

weatherability

Sand and Dust test

Tape Test

85°C/95% X240h

Severe 20 stroke

UV+water X1000h

13.3m/s, <150μm, ≥3h, 0.33g/m3

MIL-F-48616

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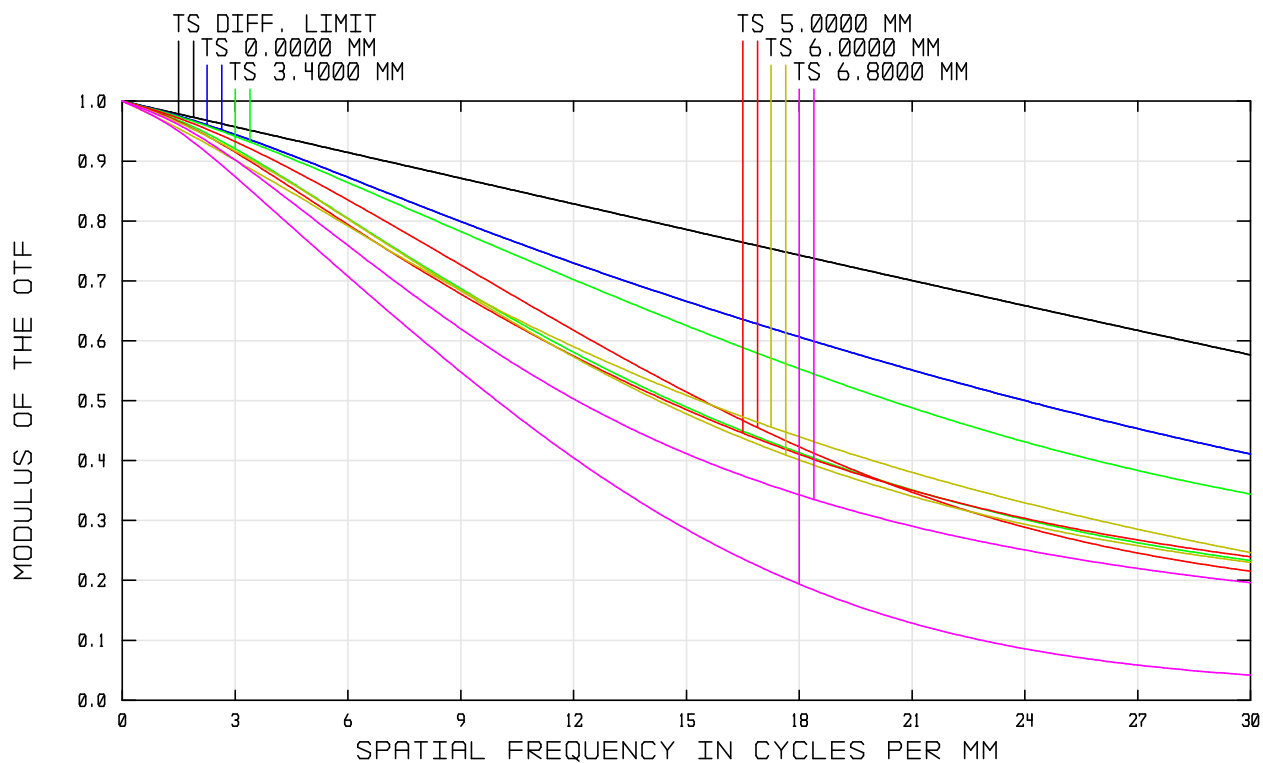
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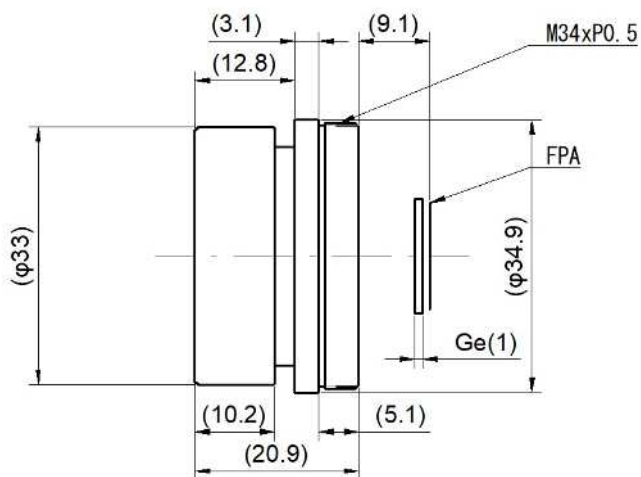
MIL-STD-810G 510.5

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

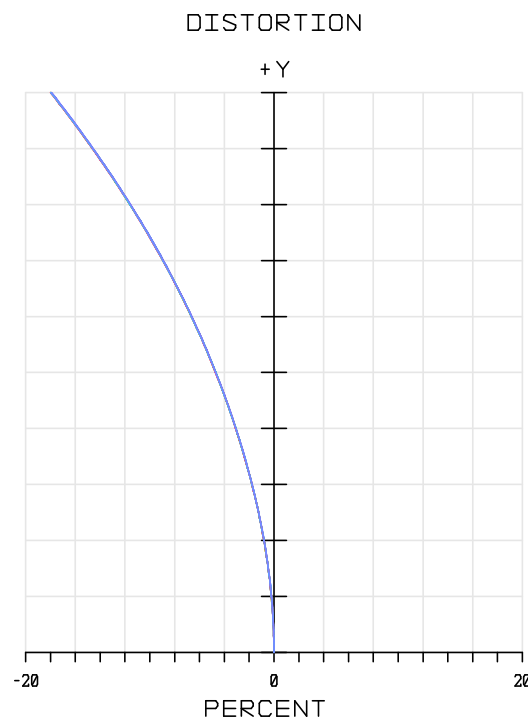
MTF Curves



Layout



Distortion



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