

TH17V1810-34

- Cost effective lens for high volume application
- Designed for uncooled IR sensors
- Suitable for under FOV 24degree use
- Optimized for the 8-12μm wavelength range



| Property | Value | Remarks |
|-----------------------------|-----------------------|---------------------|
| Optical | | |
| Focal Length | 18.8mm | |
| F/# | 1.0 | |
| Horizontal Filed of View | 32.9° (A) / 24.3° (B) | |
| Image Circle | 13.6mm | |
| Back Focal Length | 11.3mm | include window |
| Focus Adjustment | Manual | |
| Lens transmission (average) | 0.79 | wavelength 8-12μm |
| Coating Type | AR Coating*1 | wavelength 8-12μm |
| Mechanical | | |
| Weight | 20g | |
| Lens Mount | Threaded | M34× 0.5(Pitch)[mm] |
| Environmental | | |
| Operating Temperature | -40°C to +80°C | Athermalized |

Specifications are subject to change without notice.

*1 Environmental Test (MIL-F-48616)

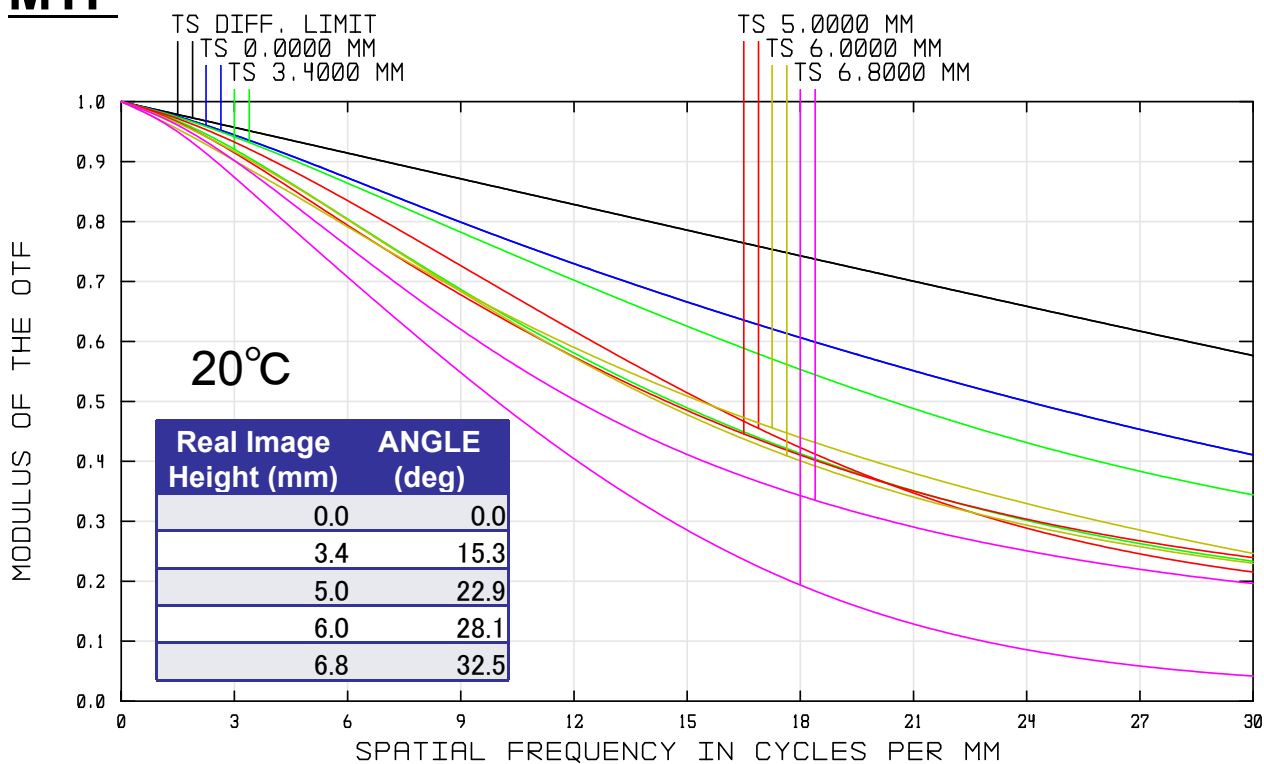
| | |
|----------------------|--------------------------|
| Adhesion | Tape Test |
| Humidity | 85°C/95%X1000h |
| Abrasion | Severe 20 stroke |
| Temperature Shock | -40°C to 100°CX1000cycle |
| High/Low Temperature | 100°CX750h/-57°CX570h |

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

Thermal image by ZnS Lens



MTF



Dimensions

