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|-------------------|----------------------|-----------------|
| SPEC. INFO | FL-CC1218-5MX | K66484-S001-B13 |
| | | Oct. 12. 2018 |

1. Model FL-CC1218-5MX
2. Application For 2/3 Format Camera

3. Specification

3-1. Physical (As per the attached drawing)

- (1) Dimensions ϕ 33.0 mm \times 47 mm
- (2) Weight 85 g
- (3) Mount C-Mount (1 – 32 UN – 2A)
- (4) Filter Screw Size M30.5 mm , P = 0.5 mm

3-2. Optical

- (1) Focal Length 12 mm \pm 5%
- (2) Max. Aperture Ratio 1: 1.8
- (3) Iris Range F / 1.8 to F /16
- (4) Angle of View
 Diagonal 49.4°
 Horizontal 40.5°
 Vertical 30.9°
- (5) Picture format 8.8 mm \times 6.6 mm
- (6) Focusing Range Inf. to 0.1 m
- (7) Back Focal Length 13.2 mm (in air)
- (8) Flange Back Length 17.526 mm \pm 0.05 mm (in air)

3-3. Mechanical

- (1) Focusing Mechanism
 Rotation Angle 62°
 Rotation Torque 1.0N·cm to 9.0 N·cm
 Focus Ring can be fixed at any positions by
 3 fixing screws or 1 thumb screw (refer to external view)
- (2) Iris Mechanism
 Non-click
 Rotation Angle 83°
 Rotation Torque 0.01N·cm to 3.0 N·cm
 Iris Ring can be fixed at any positions by 3 fixing screws
 or 1 thumb screw (refer to external view)

3-4. Vibration & Shock Test Standard

(1) Vibration Conditions

| | |
|-----------------------|--|
| Wave | Sine Wave |
| Acceleration | 1.96 m/s ² to 59.78 m/s ² |
| Cycle Range | 10 Hz to 55 Hz |
| Cycle Period | 3 Minutes |
| Duration of Vibration | 120 Minutes Respectively in Three Dimensional Directions |

(2) Shock Conditions

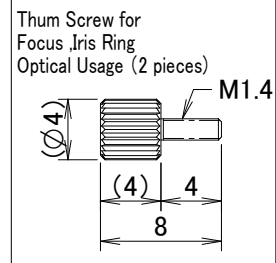
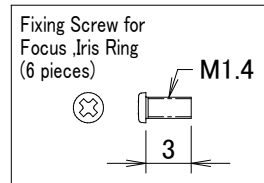
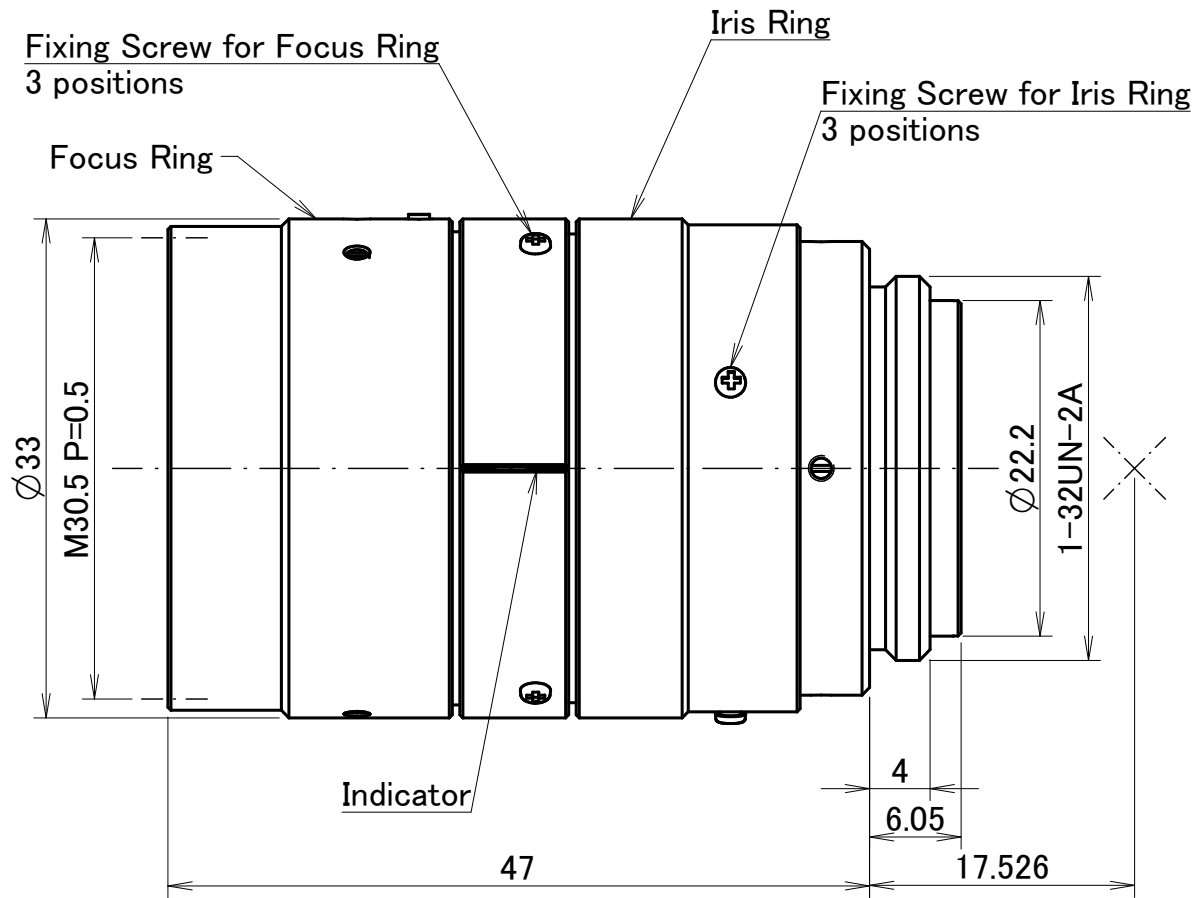
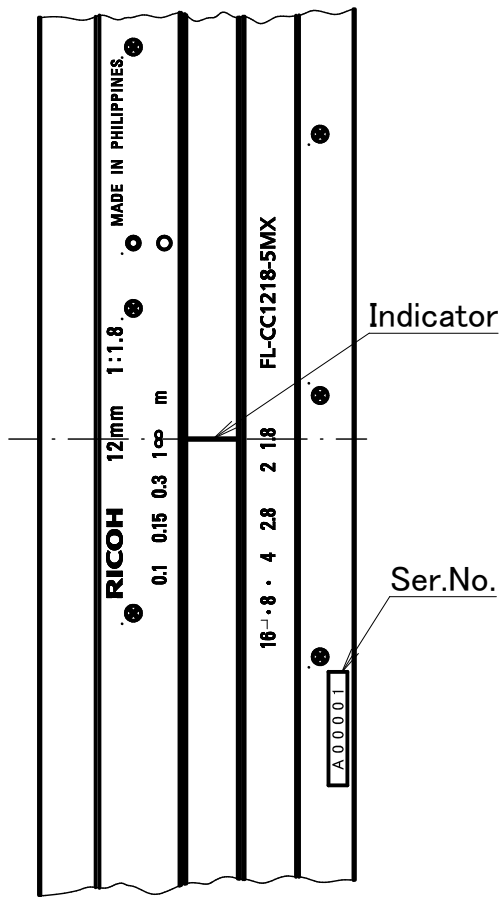
| | |
|------------------------------|---|
| Tester | Shock Testing Machine by Dropping |
| Impact Force | 588 m/s ² |
| Duration of Shock | 3.5 ms |
| Directions & Number of Times | 1 Time Respectively in Three Dimensional Directions |

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3-5. Environmental Temperature Range -10°C to +50°C

4. Accessories

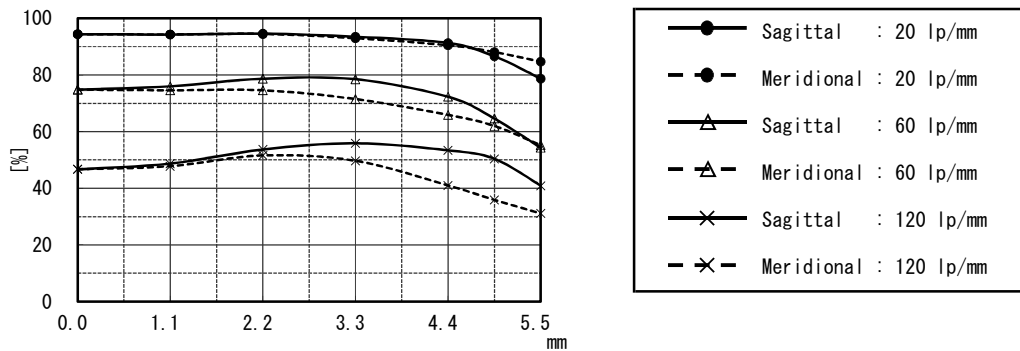
- | | | |
|---------------------------------------|----------|----------------------|
| (1) Front Lens Cap | 1 piece | |
| (2) Rear Lens Cap | 1 piece | |
| (3) Fixing Screw for Focus ,Iris Ring | 6 pieces | |
| (4) Thumbscrew for Focus ,Iris Ring | 2 pieces | (for Optional Usage) |
| (5) Packing Box | 1 pieces | |



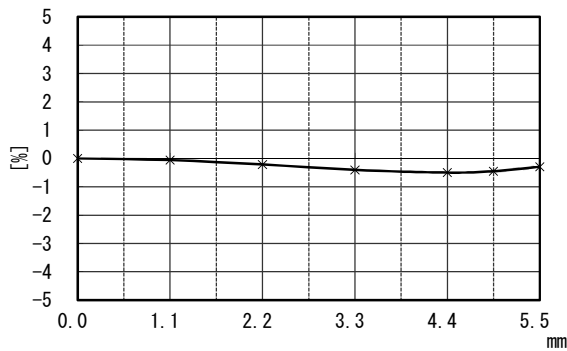
| | |
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| | K66484-S001-A33 |
| RICOH Industrial Solutions Inc. Oct.12.2018 | |

● Modulation Transfer Function (MTF)

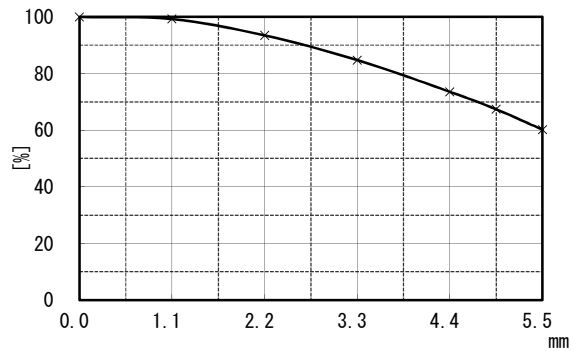
W. D. = 250mm



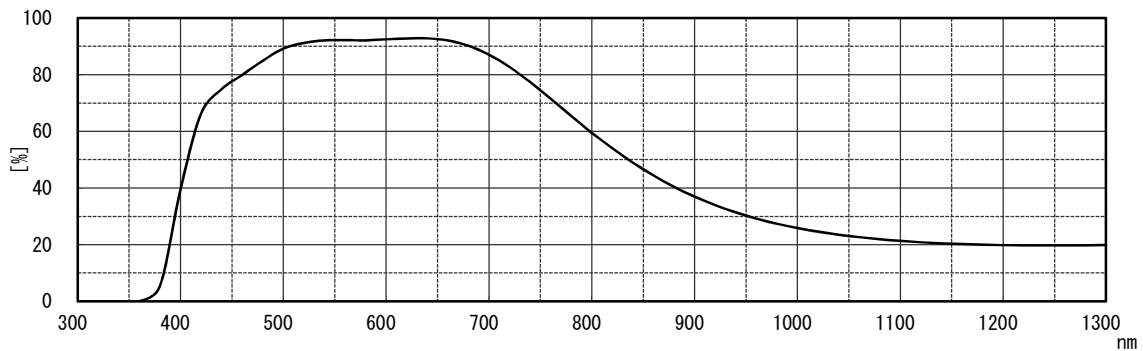
● Distortion (歪曲収差)



● Vignetting (周辺光量)



● Spectral Transmittance (分光透過率)



- Entrance Pupil Position (入射瞳位置) -44.64 [mm]*
- Exit Pupil Position (射出瞳位置) -52.25 [mm]*
- 1st Principal Point (第一主点) -35.40 [mm]*
- 2nd Principal Point (第二主点) -11.99 [mm]*

(*:From Image Plane , W. D. = ∞)



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