

ELM-6-5.6-9-C



Lens module specifications

| | | | |
|--------------------------------|----------------|---------|----------------------|
| Effective focal length | 6.0 | mm | |
| F/# | 5.6 | (Fixed) | |
| Maximum sensor format | 1/1.8 | inch | |
| Maximum image circle (Φ) | 8.9 | mm | |
| Lifecycles (10-90% sinusoidal) | >1'000'000'000 | cycles | |
| FOV (at 1/2" sensor format) | Diagonal | 74.5 | ° |
| | Horizontal | 57.5 | ° |
| | Vertical | 44.7 | ° |
| Back Focal Length | 7.9 | mm | In air |
| Optical Distortion | < 4.0 | % | |
| Pixel size recommended | 3.45 | μm | |
| Wavelength range | 486-656 | nm | |
| Relative illumination | > 72 | % | |
| Max chief ray angle | 12.5 | ° | |
| Working distance range | 60 to Inf | mm | |
| Mount | C-mount | | |
| Connector type | Hirose | | 6 pins |
| Total Track Length | 58.5 | mm | Liquid Lens included |
| Dimension (Φ x L) | 33.0 x 40.9 | mm | |
| Operating temperature | 0 to +40 | °C | |
| Storage temperature | 0 to +50 | °C | |

Electrical specifications

| | | | |
|--|--------------|----|--|
| Control current (typical) | -120 to +120 | mA | |
| Operating voltage | -1...1 | V | |
| Power consumption (full tuning range) | 0 to 100 | mW | $P = R_{Coil} \times i^2$ |
| Power consumption (+/- 5 dpt tuning range) | 0 to 15 | mW | |
| Settling time | 2 to 4 | ms | Low pass filtered / normal step signal |

Focus tunable lens specifications

EL-3-10-VIS-26D

| | | | |
|--|------------|------|-----------------------------------|
| Focal power range (@20°C) | -13 to +13 | dpt | |
| Wavefront error @525nm (vertical/horizontal optical axis) | <0.2/<0.2 | λRMS | |
| Temperature compensation | Yes | | If ITALIA G.EL camera series used |

| Hirose connector (HR10A-7R-6PB) | Function | Sensor pins |
|---------------------------------|----------------------|-------------|
| Pin 1 | Control current + | - |
| Pin 2 | Control current - | - |
| Pin 3 | Ground | 1-4 |
| Pin 4 | Power | 8 |
| Pin 5 | I ² C SCL | 6 |
| Pin 6 | I ² C SDA | 5 |



