

# DATA SHEET

## S5VPJ6415

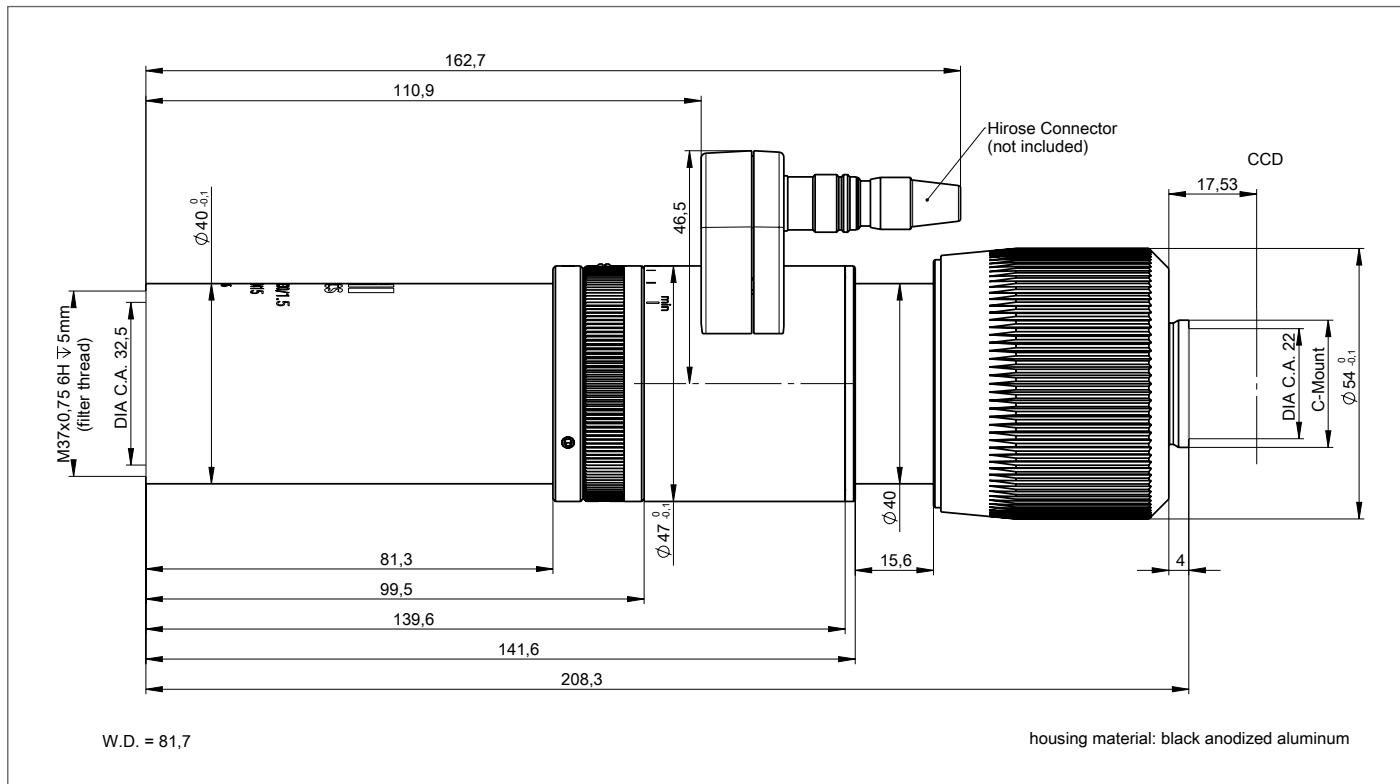
### TELEC. IMAGING LENS T30/1.5 VARIABLE WD C-MOUNT

- ▶ TELECENTRIC LENSES WITH FOCUS TUNABLE LENS
- ▶ OBJECT-SIDED TELECENTRIC
- ▶ WITH C-MOUNT
- ▶ VARIABLE IRIS (MANUAL)



ILLUSTRATION ONLY

### OUTLINE DRAWING



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# DATA SHEET

## SPECIFICATIONS

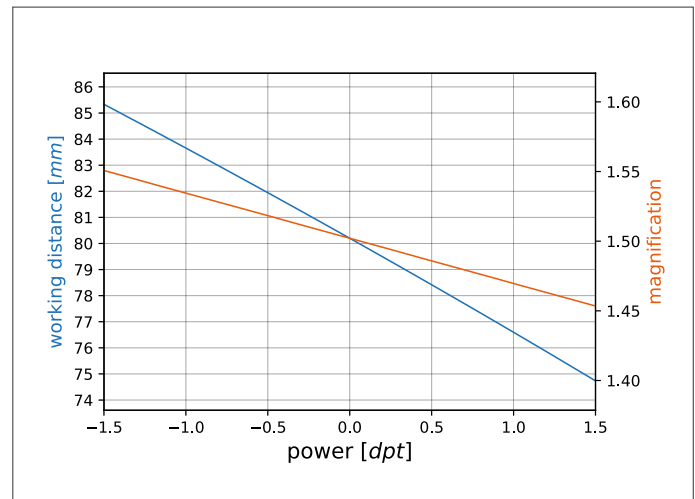
|  |  |
|--|--|
| article number                             | S5VPJ6415  |
| wavelength range [nm]                      | 450 - 700  |
| design wavelength [nm]                     | 450 - 700  |
| nominal magnification (+/-5%)              | 1.5  |
| nominal working dist. [mm] (+/-2%)         | 80.2   |
| object size [mm]<br>at a chip size of [mm] | 8.5 x 6.4<br>12.8 x 9.6 (1")   |
| object size [mm]<br>at a chip size of [mm] | 9.4 x 7.1<br>14.1 x 10.6 (1.1")  |
| object size [mm]<br>at a chip size of [mm] | 10.3 x 7.7<br>15.4 x 11.5 (1.2")   |
| max. distortion [%]                        | 0.6  |
| max. telecentricity error [°]              | 0.03   |
| recommended numerical aperture             | 0.095  |
| WD at +3.0 dpt                             | 69.2   |
| magn. at +3.0 dpt                          | 1.41   |
| WD at -2.0 dpt                             | 87   |
| magn. at -2.0 dpt                          | 1.57   |
| weight [kg]                                | 0.7  |
| flange back distance [mm]                  | 17.53  |
| accessory (not included)                   | S5ZUB1640 (Optotune lens driver 4i), S5ZUB1641 (connection cable 6pin Hirose, 100cm) |

## ELECTRONICAL SPECS

|                           |                  |
|---------------------------|------------------|
| nominal optical power     | -2.0 to +3.0 dpt |
| response time             | 5 ms             |
| settling time             | 25 ms            |
| nominal control current   | -250 to +250 mA  |
| nominal power consumption | 0 to 0.7 W       |
| lifecycles                | > 1,000,000,000  |
| operating temperature     | -20 to +65 °C    |
| storage temperature       | -40 to +85 °C    |

Detailed electronical specification, absolute control current and customized control datasheet: [optotune.com](http://optotune.com)

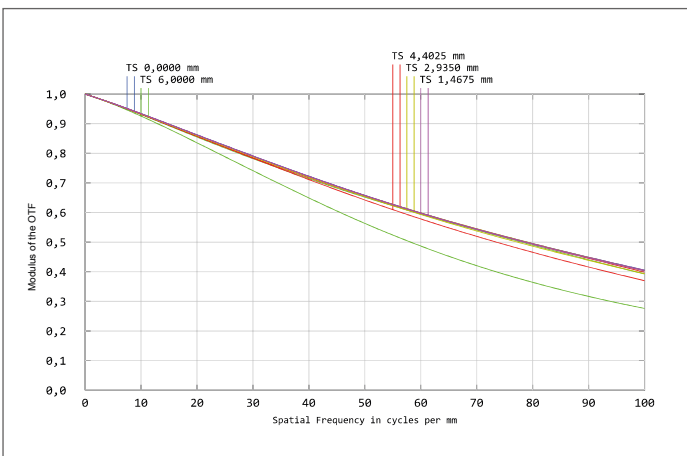
## OPTICAL POWER



## REMARKS

best performance within +/-1.00 dpt. (WD +/-3.5 mm) and vertical orientation

## MTF FOR VARIOUS OBJECT HEIGHTS FOR 450 - 700nm AT 80.2 mm



T. tangential

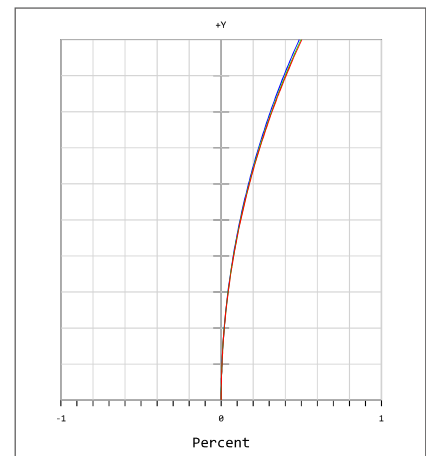
S. sagittal

## GRAPHS AND DATA GIVEN BY DESIGN

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## DISTORTION FOR 450 - 700nm AT 80.2 mm



x = distortion

y = field size