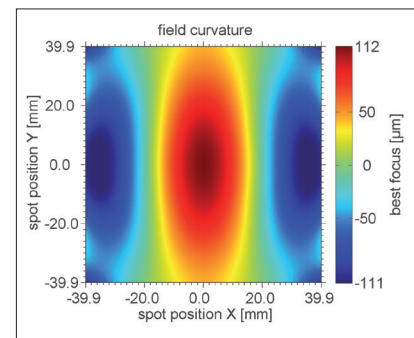
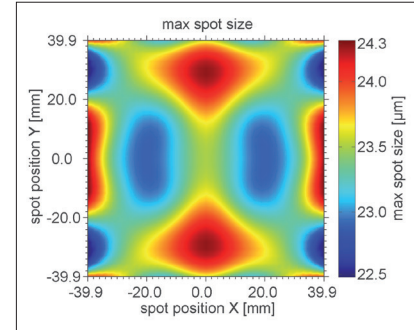


# F-Theta JENar™ Silverline™ Lens

## High Power Lens – JENar™ 160-1030...1080-110

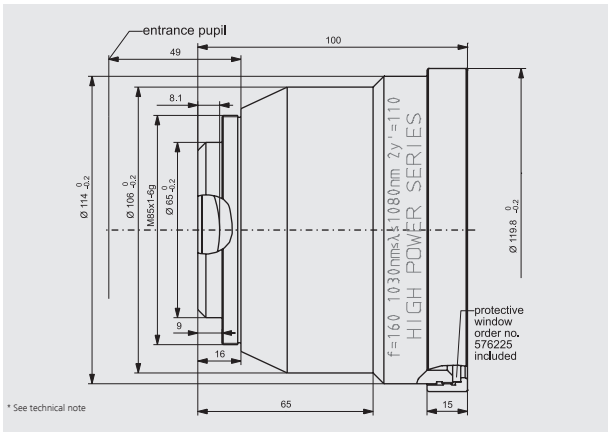
| Parameters                                    | JENar™ 160-1030...1080-110<br>Fused silica lens              |
|---|--|
| Focal length:                                 | 160 mm   |
| Wavelength:                                   | 1030...1080 nm   |
| Scan field ( X x Y ); Ø:                      | (78 mm x 78 mm); 110 mm                                      |
| Diagonal scan angle:                          | ± 20°  |
| X/Y mirror angle:                             | ± 7.1°   |
| Back working distance:                        | 183.6 mm   |
| Flange focus distance:                        | 267.6 mm   |
| Input beam Ø 1/e²:                            | 14 mm  |
| Focus size Ø 1/e²:                            | 22 µm  |
| a1   a2:                                      | 17 mm   40.5 mm  |
| Telecentricity (only F-Theta   with scanner): | 5.2°   5.4°  |
| Absorption:                                   | fused silica: < 15 ppm/cm<br>coating: < 5 ppm (mean = 3 ppm) |
| Group delay dispersion (GDD)*:                | 759 fs²  |
| LIDT coating pulsed; CW*:                     | 5.0 J/cm² * (τ/[ns]) ^ 0.30; 5.0 MW/cm²                      |
| LIDT system pulsed; CW*:                      | 5.0 J/cm² * (τ/[ns]) ^ 0.30; 5.0 MW/cm²                      |
| Weight:                                       | 1.08 kg  |
| Order Number:                                 | 017700-025-26  |

### Spot properties

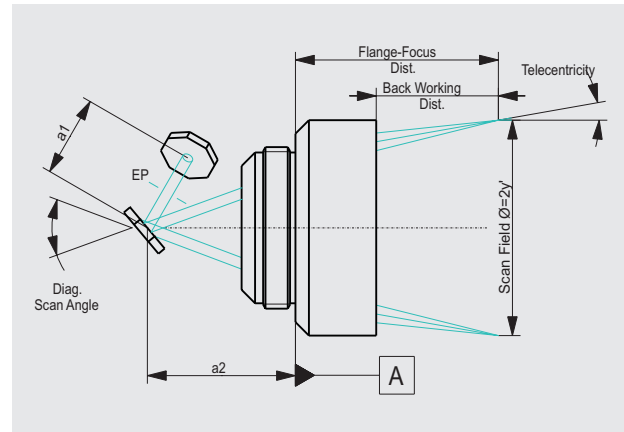


### Specifications

#### JENar™ 160-1030...1080-110



### Definition of geometrical parameters



JENar®: Registered in EU, CN, JP, SG, US | Silverline®: Registered in DE, JP, SG, IN

The data given are nominal values for the specified application parameters. Jenoptik provides Zemax® BlackBox files for simulating application results for customized parameters (e.g. wavelength, scanner geometry, beam diameter, ...). Back working distance, Flange focus distance, and focal length vary by ± 1.5 % due to manufacturing variances.

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.