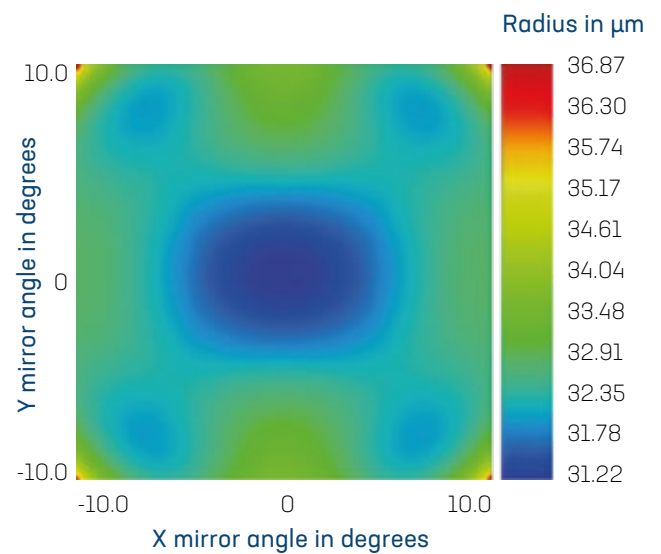


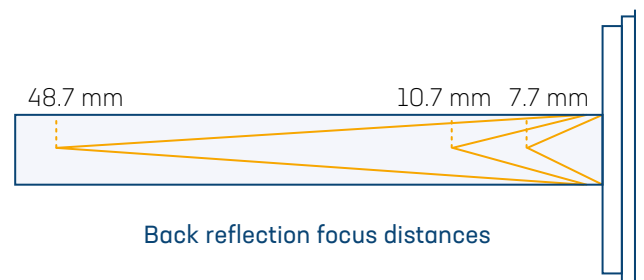
F-Theta Lenses for High Power Lasers

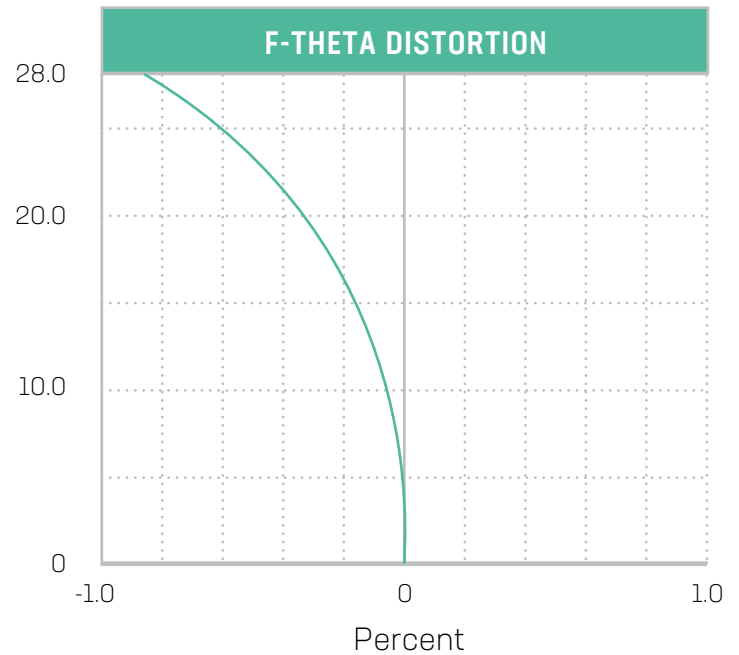
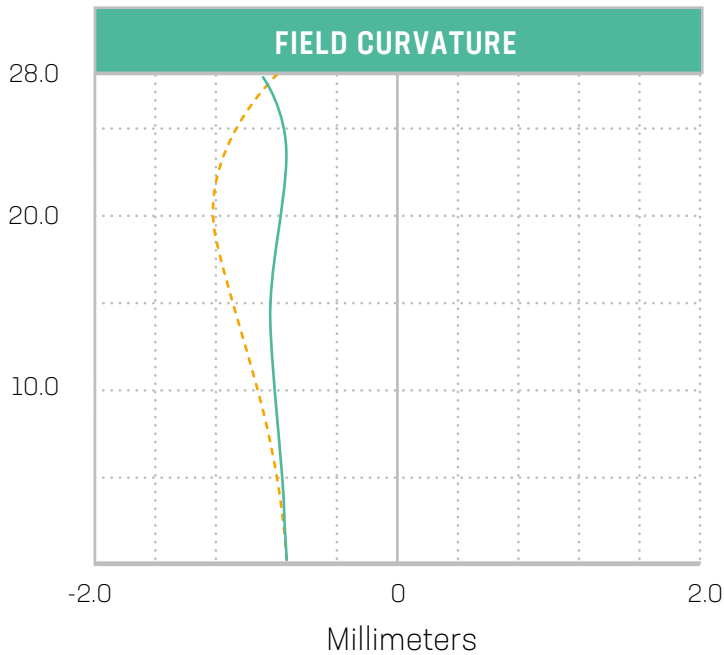
Fused silica lenses Wavelength: 1000-1080 nm
Focal length: 254 mm Working area 170x170 mm

SPECIFICATIONS	
Parameter	Value
Design wavelength	1030 nm
Effective focal length	254 mm
Working distance	321.9 mm
Maximum entrance beam diameter	15 mm
Optical scan angle	±28 °
Scan length (one mirror system)	246.4 mm
Scan area (two mirror system)	170 x 170 mm
Aperture stop distance	28.1 mm
Distance from the mount to M1 and M2	20.6 mm and 35.6 mm
Maximum telecentricity error	12 °
F-Theta Distortion (Max)	0.87%
Number of elements	4 lenses + protective window
Total transmission	>97%
Coating LIDT	CW @ 1070 nm: >10 MW/cm ² fs @ 1030 nm (200 fs, 1 kHz): >0.5 J/cm ² ns @ 1064 nm (10 ns, 100 Hz): >30 J/cm ²
AR Coating	AR<0.2% @ (1000-1080) nm, i(0-35) °
GDD Specification	1295 fs ²
Lens material	UVFS
Maximum Lens Housing Diameter	Ø154 mm
Easily replaceable protective window (UVFS)	Ø144x3 mm
Mounting Threads	M85×1
Weight	1155 g



Laser beam spot radius for Ø15mm input beam diameter at working distance of 321.9 mm for two mirror system.





OUTLINE DRAWING

