

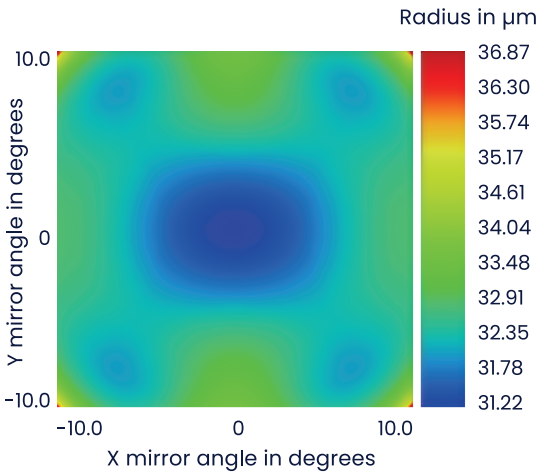
F-THETA LENSES FOR HIGH POWER LASERS

Fused silica lenses
Focal length: 254 mm

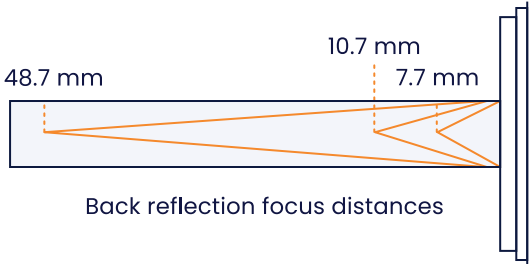
Wavelength: 1000-1080 nm
Working area 170x170 mm

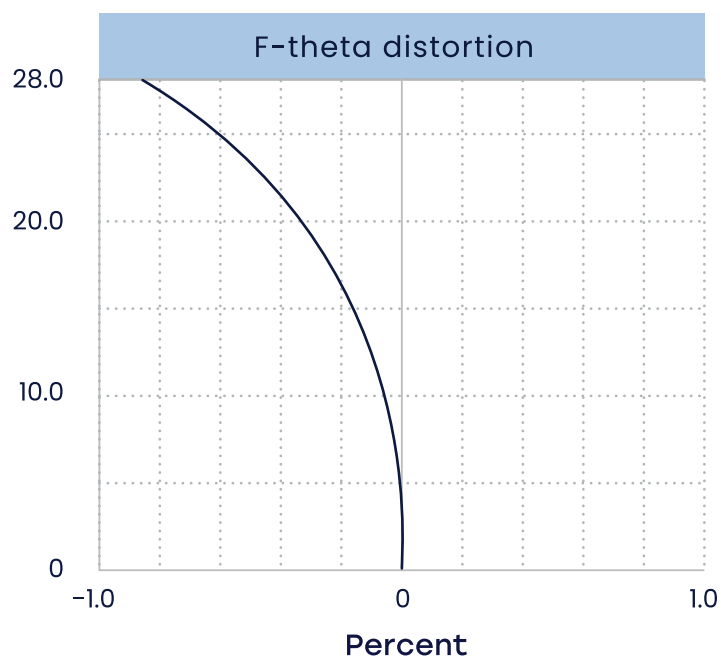
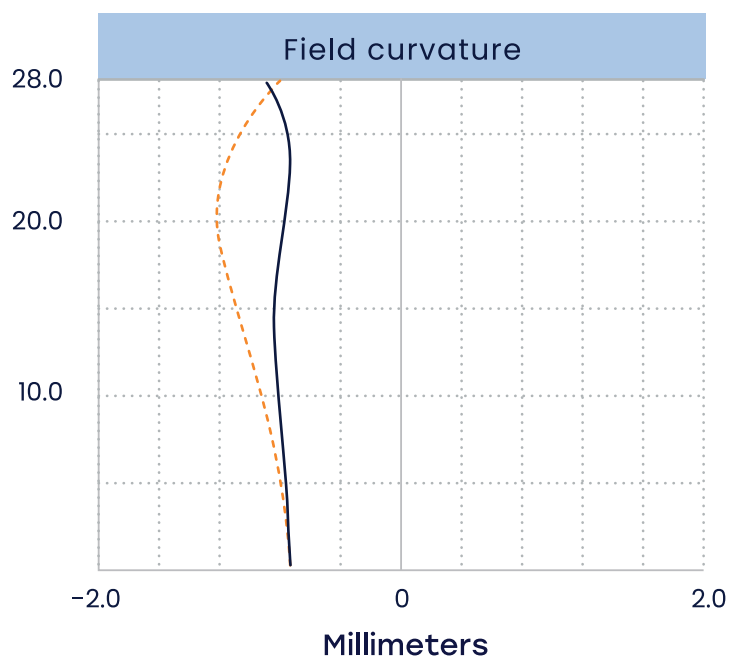
SPECIFICATIONS:

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/cm² fs @ 1030 nm (200 fs, 1 kHz): >0.5 J/cm² ns @ 1064 nm (10 ns, 100 Hz): >30 J/cm²
AR Coating	AR<0.2% @(1000-1080) nm, i(0-35) °
GDD Specification	1295 fs²
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

