High Power Laser Focus Lenses Datasheet

Brand Intro & Document ID

Felix Glass specializes in custom precision optical components for machine vision, laser systems, medical optics, spectroscopy and industrial imaging. OEM & ODM manufacturing services are available worldwide. Document No.: FG-LASER-001 | Rev.1.0 | Issue Date:2026

Core Specification Table

Item	Specification
Substrate Materials	Fused Silica, ZnSe, Sapphire, H-K9L, YAG, CaF2
Laser Lens Types	Fiber Laser Focus Lens, CO2 Laser Lens, UV Laser Lens, Laser Collimating Lens, Femtosecond Laser Lens
Diameter Range	3mm - 150mm custom size
Surface Flatness	Up to λ/10
Surface Quality	Up to Class 00
Focal Length Tolerance	±0.3%
Laser Damage Threshold	High power AR coating optimized for each laser wavelength
Coating Options	1064nm IR AR, 9.3/10.6μm CO2 AR, 355/266nm UV AR, Broadband Laser AR
Custom Service	Blackened edge, chamfer, customized focal length & coating wavelength

Product Introduction

1. Fiber Laser Focus Lens: 1064nm coating for metal cutting, engraving, marking
2. CO2 Laser ZnSe Lens: Mid-infrared high transmittance for wood, plastic cutting
3. UV Laser Focus Lens: Fused silica low fluorescence for PCB marking, micro-processing
4. Laser Collimating Lens: Convert divergent laser beam into parallel light beam
5. Femtosecond Laser Lens: Ultra-low dispersion for ultra-precision micro machining

The information contained in this document is provided for reference only. Final specifications are subject to mutually approved engineering drawings, production capability review, and customer project requirements.