

TECHSPEC® RefIX™ OBJECTIVES

#59-889 • 23.75mm WD • 15X/0.28NA

PROTECTED GOLD

Reflective Objectives are commonly used in applications requiring superior image quality or focusing performance over a broad spectral range. The schwarzschild-style objective exhibits near-diffraction limited performance over the full reflecting range of the chosen coating. By eliminating the problems of chromatic aberration and material absorption associated with standard microscope objectives, these components are ideal for applications requiring high throughput and excellent resolution in the UV or IR, including FTIR spectroscopy, ellipsometry, photolithography, and semiconductor inspection.



Style:	Finite Conjugate
Magnification:	15X
Numerical Aperture NA:	0.28
Working Distance (mm):	23.75
Focal Length FL (mm):	13.3
Field of View, 2/3" Sensor:	0.59 x 0.44mm
Field of View, 1/2" Sensor:	0.43 x 0.32mm
Transmitted Wavefront, RMS:	$\lambda/14$
Obscuration (%):	27
Entrance Pupil (mm):	7.4 (Diameter)

Aperture Diameter (mm):	8.5
Diameter of Small Mirror (mm):	8.8
Reflection (%):	>94
Coating:	Protected Gold
Coating Specification:	$R_{avg} > 97\% @ 800 - 2000nm$ $R_{avg} > 94\% @ 700 - 800nm$
Mounting Threads:	RMS
Type:	Microscope Objective
Wavelength Range (μm):	0.5 - 20
Wavelength Range (nm):	500 - 20000
Manufacturer:	E0

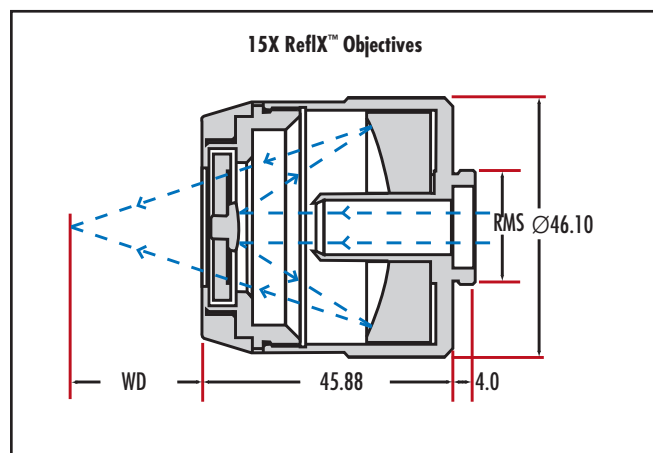


Figure 1: Dimensions of Objective.

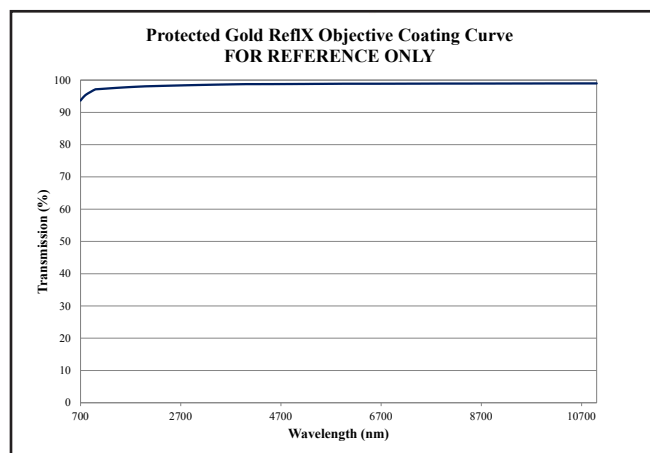


Figure 2: Spectral Reflectance Curve.