



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## PE150AF CERMAX® XENON SHORT-ARC LAMPS



*Cermax® Xenon short-arc lamps from Excelitas Technologies are ideal for applications that require a high degree of illumination control.*

The Cermax® Xenon short-arc lamp from Excelitas Technologies is an innovative lamp design in the specialty lighting industry. Cermax® Xenon lamps were first introduced in the early 1980s and are now used in diagnostic and surgical endoscopes in most major hospitals worldwide, in high-brightness projection display systems, and for a wide variety of other high-performance applications.

The Cermax® Xenon lamp, Model PE150AF, has an integrated parabolic reflector, enabling high-intensity, focused light output. Due to the Xenon lamp's broad color spectrum, the lamp is filtered to emit ultraviolet, visible, or infrared light, depending upon application and usage. With their internal reflector and rugged ceramic body construction, Cermax® Xenon lamps are the safest and most compact alternative to conventional quartz xenon lamps. Cermax® lamps are ideal for applications that require a high degree of illumination control.

Current-regulated or power-regulated power supplies with output ripples of less than 5% are recommended. Single-shot ignition pulses are advised because radio frequency starters may damage the lamp's internal reflector.

In addition to lamps, Excelitas Technologies manufactures Cermax® Xenon short-arc lamp power supplies, lamp holders, OEM lighting systems, and fiber optic light sources.

[www.excelitas.com](http://www.excelitas.com)

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**CERMAX**

### Key Features

- High-intensity illumination—1350 Lumens
- Compact size
- Power range of 100-150 Watts
- 1000 hours lamp lifetime
- Broad spectral range with 5900° Kelvin color temperature

### Applications

- Medical fiber optic illuminators
- Industrial fiber optic illuminators
- Machine vision
- Infrared and visible spotlights/beacons
- Spectroscopy
- Microscopy
- UV Curing
- Video projection

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## PE150AF

# CERMAX® XENON SHORT-ARC LAMP

## PE150AF

Operational Specifications		
Description	Nominal	Range
Power	150 Watts	100-150 Watts
Current	11 amps (DC)	10-14 amps (DC)
Operating Voltage	11.7 Volts (DC)	10-13.6 Volts (DC)
Ignition Voltage	23 kilovolts (recommended minimum)	
Temperature	120° C (Maximum)	
Lifetime*	1000 hours typical	

\* End of life is defined as 50% of initial output

Initial Output at Nominal Power	
F= UV Filtered Output	
Description	PE150AF
Radiant Output*	16 Watts
UV Output*	0.9 Watts
IR Output*	8 Watts
Visible Output*	1350 Lumens
Color Temperature	5900° Kelvin
Peak Instabilities	4%

\* These values indicate total output in all directions. Wavelengths = UV<390 nm, IR>770 nm, Visible: 390 nm-770 nm

Physical Specifications	
Description	Specification
Arc Gap	0.038 inch (0.96 mm)
Weight	100 grams
Window Diameter	0.77 inch (19.6 mm)



## PE150AF

# CERMAX® XENON SHORT-ARC LAMP

## PE150AF

### Focused Output with a F/1.0 Lens

Description	Visible Output	Total Output*
3 mm aperture	700 Lumens	5.5 Watts
6 mm aperture	900 Lumens	8.0 Watts

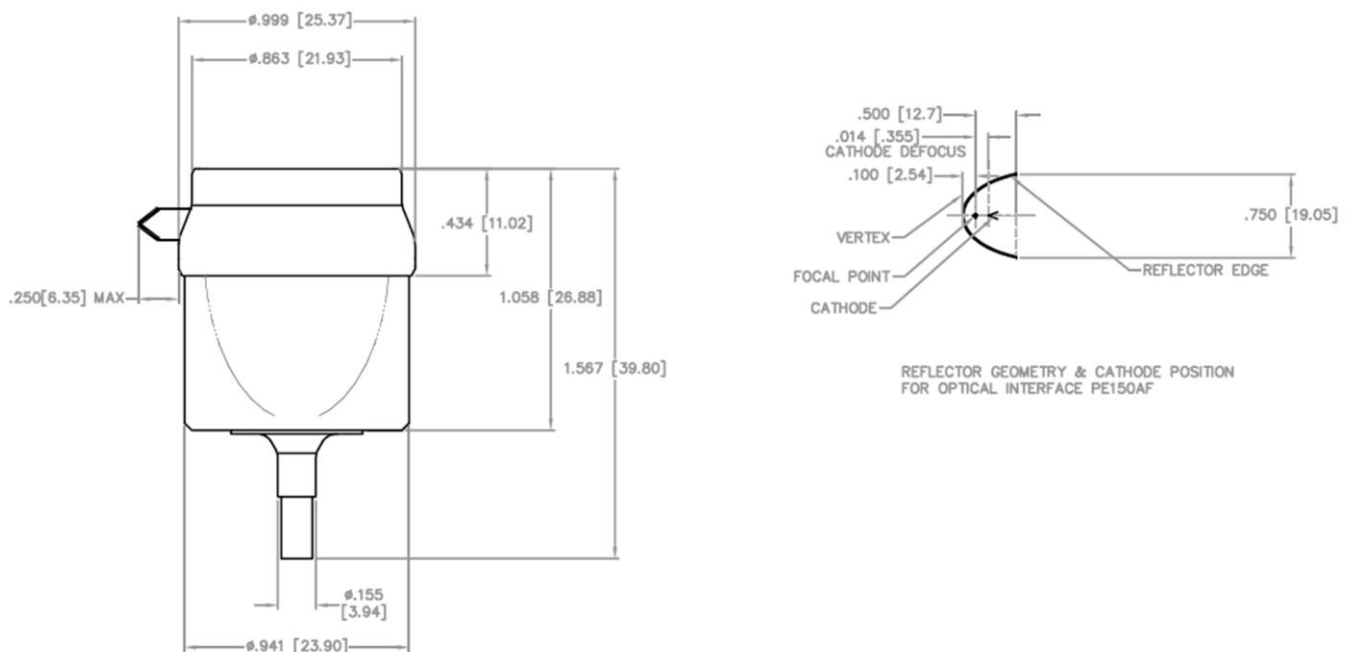
\* Nominal values at 150 watts after 2 hour burn-in.

### NOTES:

1. Lamp must not be operated with window facing upwards within 45° of vertical.
2. Seal temperature must not exceed 120° C.
3. Current/power regulated power supplies and Excelitas lamp housing units are recommended.
4. Lamp must be operated within recommended current and power range. Over powering may lead to arc instability, hard starting and premature aging.
6. Cermax® Xenon lamps are much safer lamps to use than their quartz xenon arc lamp equivalents. However, caution must be practiced when operating the lamps because they are under high pressure, require high voltage, reach temperatures up to 200° C, and their IR and UV radiation can cause skin burns and eye damage. Please read hazard sheet included with each lamp shipment.

## Mechanical Dimensions

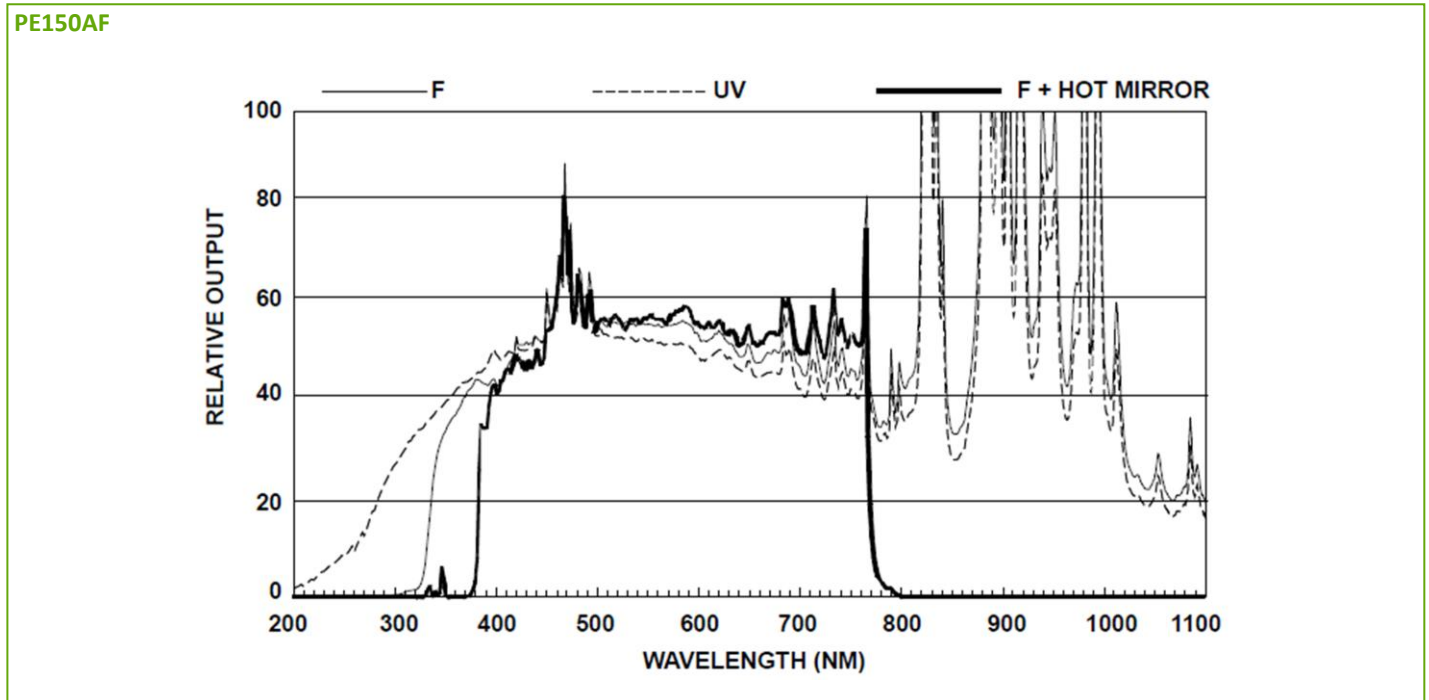
### PE150AF



PE150AF

## CERMAX® XENON SHORT-ARC LAMP

### Spectral Output



### About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers.

From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

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