



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ADNS-6120

Laser Mouse Round Lens



Data Sheet

Description

The ADNS-6120 laser mouse lens are designed for use with Avago Technologies laser mouse sensors and the illumination subsystem provided by the ADNS-6230-001 VCSEL assembly clip and the Single-Mode Vertical-Cavity Surface Emitting Lasers (VCSEL). Together with the VCSEL, the ADNS-6120 laser mouse lens provides the directed

illumination and optical imaging necessary for proper operation of the laser mouse sensor. ADNS-6120 laser mouse lens is a precision molded optical component and should be handled with care to avoid scratching of the optical surfaces.

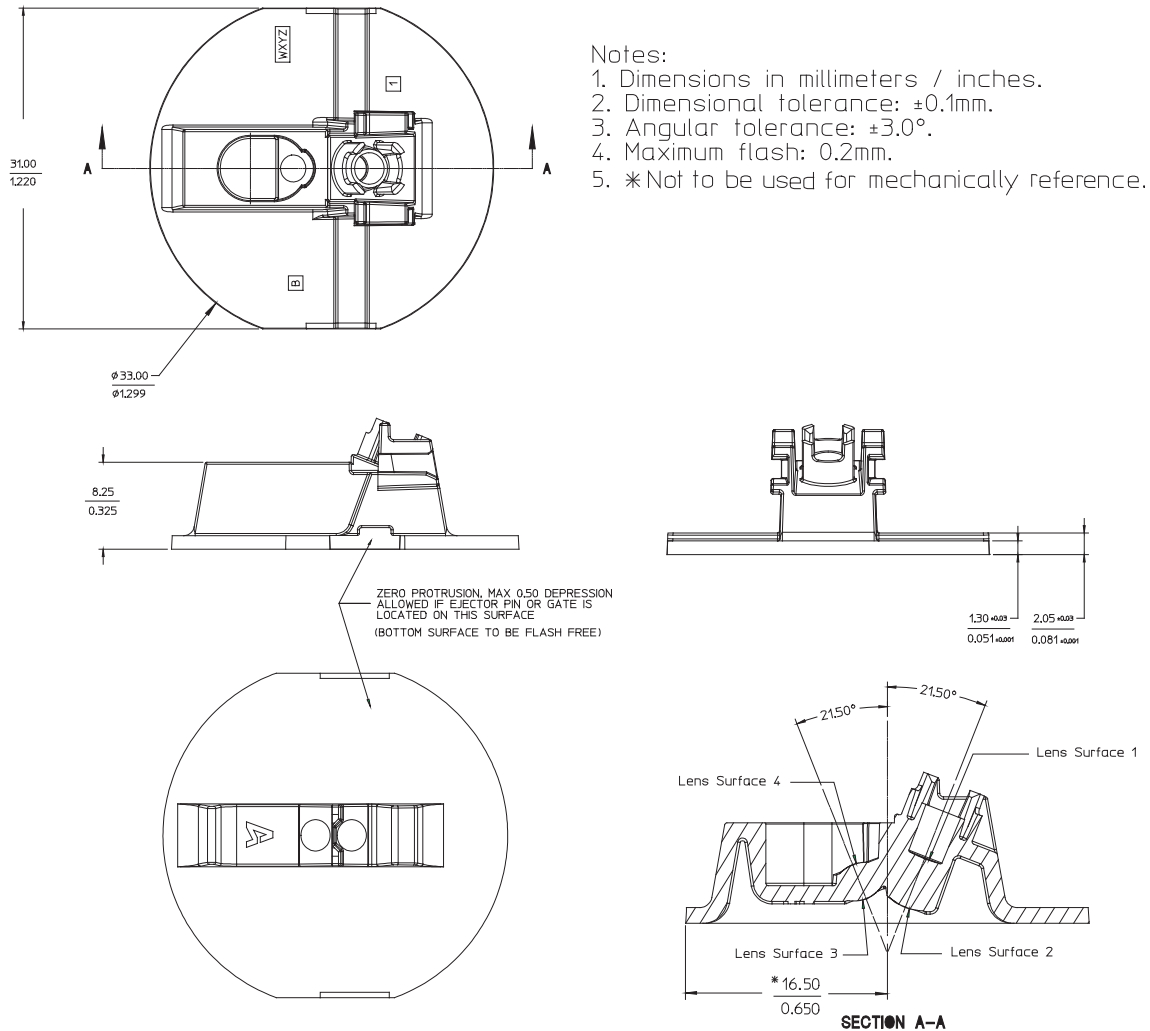


Figure 1. ADNS-6120 laser mouse round lens outline drawings and details

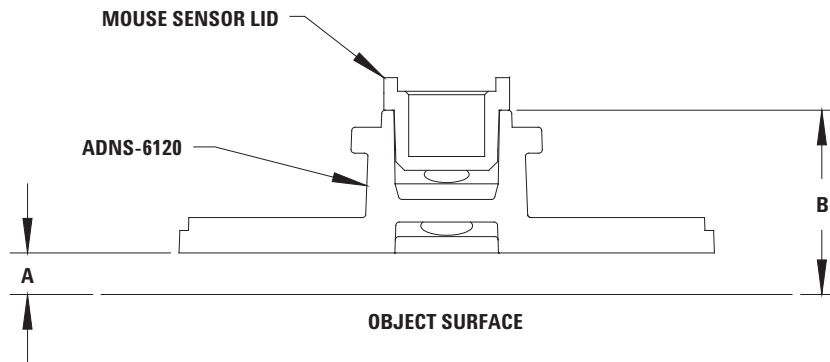


Figure 2. Optical system assembly cross-section diagram

Mechanical Assembly Requirements

All specifications reference Figure 2, Optical System Assembly Diagram

Parameters	Symbol	Min.	Typical	Max.	Units	Conditions
Distance from Object Surface to Lens Reference Plane	A	2.18	2.40	2.62	mm	For ADNS-6120
Distance from Mouse Sensor Lid Surface to Object Surface	B		10.65		mm	Sensor lid must be in contact with lens housing surface

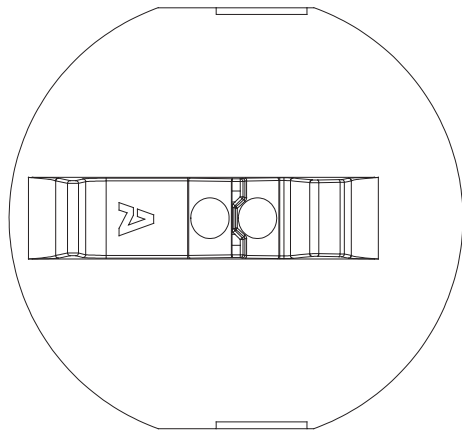


Figure 3. Avago Technologies's logo locations

Lens Design Optical Performance Specifications

All specifications are based on the Mechanical Assembly Requirements.

Parameters	Symbol	Min.	Typical	Max.	Units	Conditions
Design Wavelength	λ		842		nm	
Lens Material* Index of Refraction	N	1.5693	1.5713	1.5735		$\lambda = 842 \text{ nm}$

*Lens material is polycarbonate. Cyanoacrylate based adhesives should not be used as they will cause lens material deformation.

Mounting Instructions for the ADNS-6120

An IGES format drawing file with design specifications for laser mouse base plate features is available. These features are useful in maintaining proper positioning and alignment of the ADNS-6120 laser mouse lens when used with the Avago Technologies Laser Mouse Sensor. This file can be obtained by contacting your local Avago Technologies sales representative.

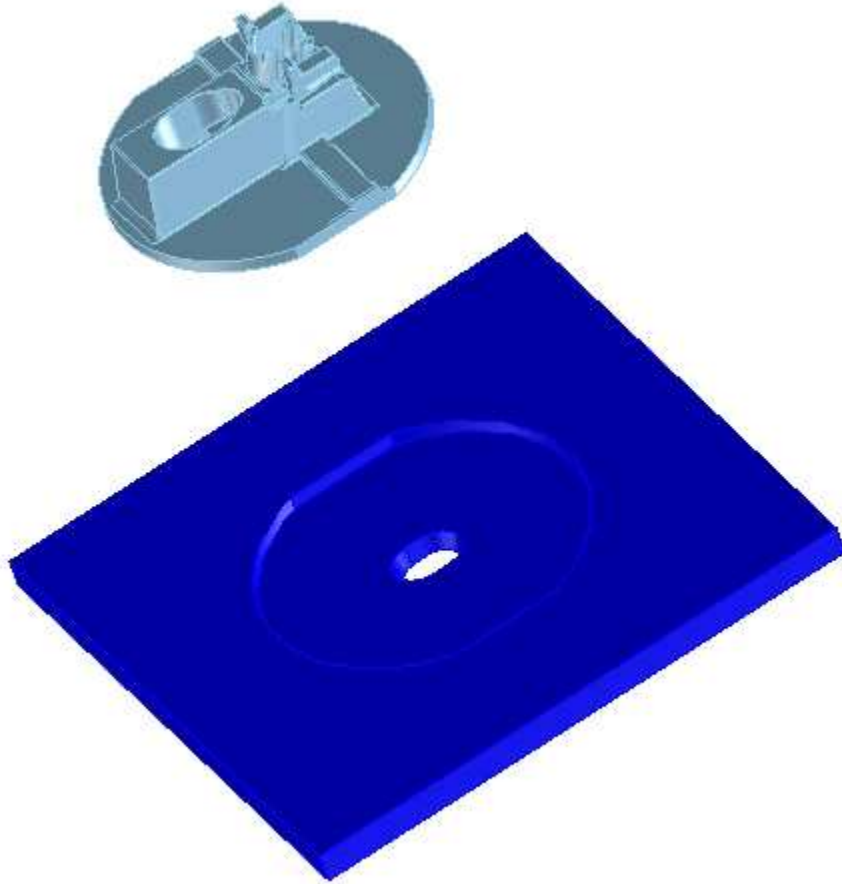


Figure 4. Illustration of base plate mounting features for ADNS-6120 laser mouse round lens

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies Limited in the United States and other countries. Data subject to change. Copyright © 2005-2008 Avago Technologies Limited. All rights reserved. Obsoletes AV01-0110EN AV02-1341EN - June 12, 2008

Avago
TECHNOLOGIES