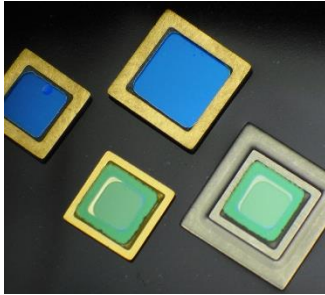


## GLASS LID

### Sealing Glass Type / Directly Sealing Type

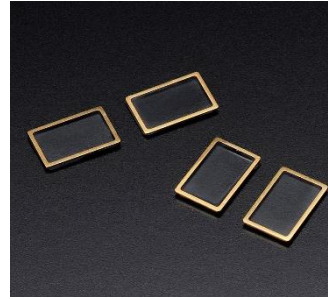
Yamamura Photonics' glass LID products are packages in which glass windows and metal frames are joined with our core technology, "GTMS (Glass to Metal Seal, joining technology of glass with metal)". Excellent hermeticity and high reliability have been realized because they consist of only inorganic materials. With supplying glass LIDs, Yamamura Photonics will continue to strongly support our customers' product development activities including measures against UV degradation in UV-LED packages which output is becoming increasingly higher from now on, and measures for making flat-mount packages thinner with the demand for miniaturization.

#### Sealing Glass Type



A type of glass LID in which a glass window is joined to a metal frame with sealing glass. Silica glass, sapphire, Si, Ge, etc. can also be joined with appropriate sealing glass.

#### Directly Sealing Type



A type of glass LID in which the window is directly joined to a metal frame without sealing glass. Compared with the sealing glass type, it can be made thinner.

#### ● Features

High reliability  
High hermeticity

Our glass LIDs have highly reliable design with excellent light resistance and heat resistance because all components are made of inorganic materials.  
Hermeticity:  $1 \times 10^{-9} \text{Pa} \cdot \text{m}^3$  per second or less

Low profile  
or Flat design

In addition to the sealing glass type, a directly joined type is available, in which flat glass is directly joined to the metal frame to achieve a low profile. Our glass LIDs contribute to making packages thinner.

Wide range  
Optical properties

A wide range of window materials can be selected, including borosilicate glass, our original glass with the excellent ultraviolet transmission, silica glass, and sapphire. Optical thin-film designs such as AR coat and band-pass filter coat are also available according to the required characteristics.

Custom design  
support

In addition to the size and shape, we propose optimal designs to match the joining methods with packages such as AuSn joining and seam welding.

#### ● Standard type of products

	For UV (280nm~)	For Visible light or near IR (400~2000nm)	For far mid-IR (2-10μm)
Window	Glass with excellent ultraviolet transmission	Borosilicate Glass	Ge
Type	Sealing glass type	Sealing glass type Direct seal type	Sealing glass type
Surface finishing of metal shells	Nickel electroplating Gold electroplating		
Recommended welding methods	Au-Sn electric bonding Seam welding		

#### Contact Information

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This products information is subject to changed or updated without notice.