Monolithic Segmented Resistive Glass Reflectron Lenses

Features

- Single Piece Construction
- Excellent Linearity
- Segmented for Dynamic Electric Fields
- Easy Cleaning
- No Voltage Divider Required
- Plug and Play at Reduced Cost



Innovative One Piece Design

A reflectron lens made with Resistive Glass provides a solid assembly replacement for stacked ring assembly while still providing the ability to alter ion flow. By generating a highly uniform electric field, Resistive Glass tubes are engineered to guide positive or negative charged particles. Photonis provides efficient one-piece segmented monolithic lenses for TOF-MS instruments that eliminate the need for complex assembly processes required for cleaning.

The Latest Technology

In 2012, Photonis received a patent to manufacture varied, non-linear electric fields in Resistive Glass tubes, allowing the instrument manufacturers to produce non-linear and dynamic field within the lens for improved overall instrument performance. Axial lines can be applied for use as collision cells and ion guides, or rings can be applied for use as a segmented reflectron lens.



Options	Specification Range
Length	Up to 254mm (10") total length in a single monolithic tube
Inner Diameter	Up to 63.5mm (2.5") ID
Outer Diameter	Up to 75mm (3.0") OD
Resistance Range	50 MΩ to 10 GΩ
Internal Pattern	Circles or Axial Lines Line width 0.5mm minimum
Ink	Highly conductive (0.07 Ω) silver (Ag) ink
Vias	Placement per customer specification
Customization	Special sizes and configurations available
Cleaning	Water, Acetone, Methanol or IPA without performance degradation
Durability	Resistant to scratches from light to moderate abrasions

Resistive Glass is protected under US patent numbers 7,154,086 and 7,081,618 and Japan patent number 2007-059612.

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