

Graphite Composite

X-ray Windows Datasheet



Graphite Composite X-ray Windows

Applications

- Microanalysis
- EDXRF
- WDXRF
- XRD

Moxtek® Graphite Composite Windows are durable windows designed to replace 25µm thick beryllium windows. Our graphite composite windows are corrosion resistant, light tight and vacuum tight. These windows can be used in a variety of applications including handheld XRF, microanalysis, EDXRF, WDXRF and XRD.

Features	Benefits
Graphite Composite	Non hazardous and inert
Thin membrane	High transmission of low energy x-rays similar to 25µm beryllium
No added support structure	Complete open area under the window so x-ray transmission is not inhibited
Uniform thickness	Consistent transmission across the entire window surface
High temperature bond	Proprietary bond that can withstand up to 200C indefinitely
High purity	Minimal spectral contamination to ensure a clean spectrum

Window Sizes

The window has an active area diameter of 5.5 mm for a 24 mm² active area. Please contact our sales department if other customized sizes are needed.

Graphite Composite Window Specifications

Window Leak Tightness: Yes

Window Light Tightness: Yes

Maximum Allowed He Leak Rate: <1X10⁻¹⁰ mbar • L/s

Material Type and Quality: Graphite Composite

Raw Material Vacuum Integrity: Vacuum Tight

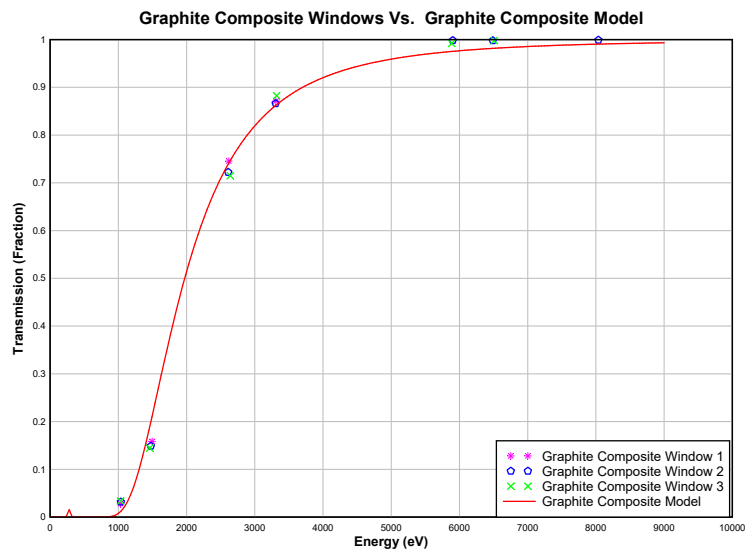
Cap Material: Nickel 200 series

Window Open Area: 100%

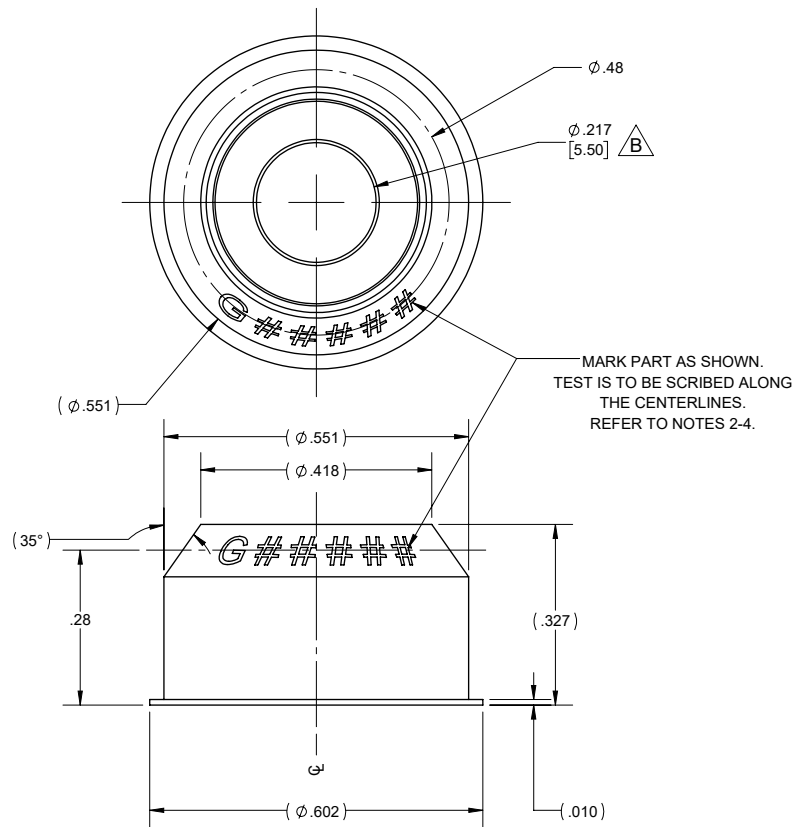
Maximum Front Pressure: 40 psig

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Graphite Composite Window Transmission



Graphite Composite Window Drawing



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