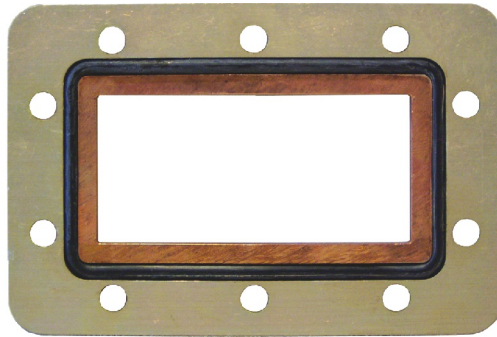




EM Design Seal

Patent No. 5,765,835



Shown Model EMDS 284

Product Overview

EM Design is proud to announce the patent approval of the EMDSeal. The EMDSeal is a unique mechanism for attaching and sealing high power waveguide flat flanges. It consists of three separate components; the inner copper component, the outside aluminum piece and the o-ring. The inner copper component is slightly thicker than the outside aluminum piece. It ensures that the seal when clamped between two flat flanges will provide contacting pressure on the copper component. The copper component is contained entirely within the o-ring seal and is protected from weather or galvanic effects by the waveguide gas or vacuum.

Especially important to note, is the EMDSeal is designed so that, if necessary, any one of the three components can be replaced. This provides you with the option of replacing just needed parts, not the entire seal. Saving you time, as well as, money.

CPR 112, 187, 284, 340 & 650 flange sizes are available. **Also, we are now providing the Varian 8-hole configuration for mating Varian WR284 flat flanges.**

Product Specifications

The nominal 2.5 mm thick seal is comprised of three distinct elements:

- Outer aluminum section; contains the flange hole pattern and acts as the outer restraint for the o-ring.

- The o-ring; provides the pressure or desired vacuum seal. And,

- A solid copper inner section; contained within the o-ring perimeter, it serves to provide inside restraint. The copper section provides a solid contact for waveguide currents and heat transfer.

Pricing Specifications

Pricing for this product is dependent upon the size and quantity ordered. For pricing on your specific needs or for more information and delivery requirements, please contact us at 541-878-3927 or hjohnson@em-design.com.

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