

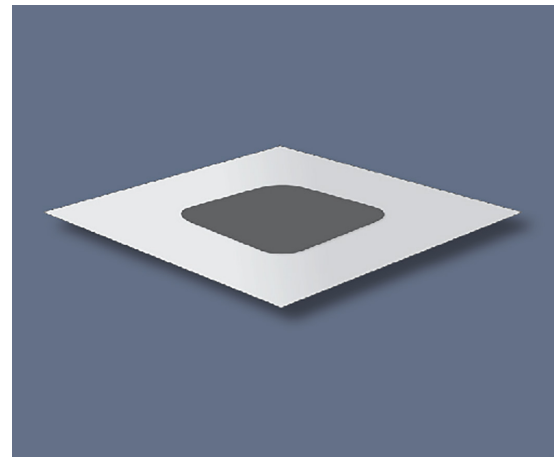
PROTEC-TAB H₂O and H₂ Getters

Overview

The use of getters within microelectronic & optoelectronic hermetic devices is a well-known solution to capture contaminants present at sealing or which outgas during the life of the device.

With proven reliability, getters provide a simple solution, often targeting a narrow range of contaminants. For nearly 20 years Hermetic Solutions Group and Johnson Matthey have offered customized getter solutions with Protelec that maintain the hermetically sealed environment necessary for maximum product reliability.

Now, for the first time, the Hermetic Solutions Group is offering a standard product to our customers for moisture and hydrogen adsorption. Reducing lengthy design time, adding flexibility and quick turn delivery, we have developed a product line to address the most common concerns our customers face.



Technical Advantages

- Tabs can be positioned anywhere within the cavity of a hermetically sealed device
- Attachment options include welding and adhesive attach
- Activation is straightforward and often fits in with standard pre-lid seal bake out processes
- A user guide is available with additional details

PROTEC-TAB Product Options

Low Temperature								
Part Number	Getter	Substrate	Tab Size (mm)	H ₂ Capacity (cc)	H ₂ O Capacity* (mg)	Max. Processing Temp.	Max. Operating Temp.	IR Reflectivity
HGT-1-0707-1	HGI1	Stainless	7 x 7	0.35	0.5	140C**	120C	N/A
HGT-1-0707-2		Titanium						
HGT-1-0909-1		Stainless	9 x 9	0.7	1			
HGT-1-0909-2		Titanium						
HGT-1-1111-1		Stainless	11 x 11	1.05	1.5			
HGT-1-1111-2		Titanium						
HGT-2-0707-1	HGI2	Stainless	7 x 7	N/A	1			
HGT-2-0707-2		Titanium						
HGT-2-0909-1		Stainless	9 x 9		2			
HGT-2-0909-2		Titanium						
HGT-2-1111-1		Stainless	11 x 11		3			
HGT-2-1111-2		Titanium						
*at 20°C after complete activation **Maximum time 1 hour at 140°C								
High Temperature								
HTT-1-0707-1	HTI-1	Stainless	7 x 7	N/A	Under Development	325C	250C [†]	N/A
HTT-1-0707-2		Titanium						
HTT-1-0909-1		Stainless	9 x 9					
HTT-1-0909-2		Titanium						
HTT-1-1111-1		Stainless	11 x 11					
HTT-1-1111-2		Titanium						
HTT-2-0707-1	HTIR2	Stainless	7 x 7	0.35	0.66			
HTT-2-0707-2		Titanium						
HTT-2-0909-1		Stainless	9 x 9	0.7	1.33			
HTT-2-0909-2		Titanium						
HTT-2-1111-1		Stainless	11 x 11	1.05	2			
HTT-2-1111-2		Titanium						
*at 20°C after complete activation, [†] Moisture getter effective up to 100°C								

Hi-Rel Alloys Division
6934 Kinsmen Ct
Niagara Falls, Ontario
Canada, L2H 0Y5
289-296-4078

Hi-Rel Lids Division
Fuller Road
Harleston, Norfolk
IP20 9EA UK
+44(0)1379-853944

Hi-Rel Products Division
16 Plains Road
Essex, CT 06426
860-767-9031

Litron Division
207 Bowles Road
Agawam, MA 01001
866-548-7661

PA&E Division
434 Olds Station Road
Wenatchee, WA 98801
855-285-5200

Sinclair Manufacturing Division
PO Box 398, 12 South Worcester St.
Chartley, MA 02712
508-222-7440