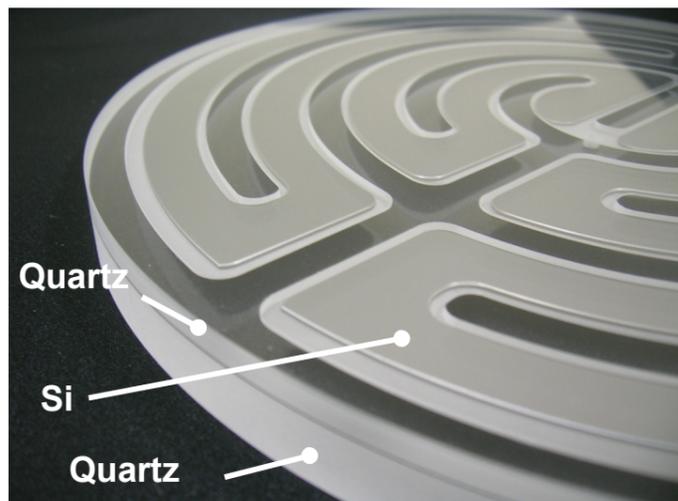


石英ガラス拡散接合

“Quartz to Quartz Diffusion Bonding”

プレート内部に異種材料（Silicon）を封入した拡散接合品です。

It enables to create interior channel pattern inside Quartz and encapsulate Si plates.



製品特長

Product Features

- ▶ 母材内部に精密中空パターンを形成することが可能

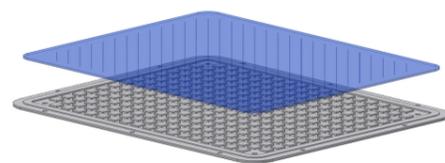
It enables to create precision internal channel to Quartz substrates.

- ▶ 形状を変形させずにバルク同等の強度で接合可能

Bonding strength is equivalent with bulk material.
No deformation.

- ▶ 製品サイズでφ500mmまで製作実績あり

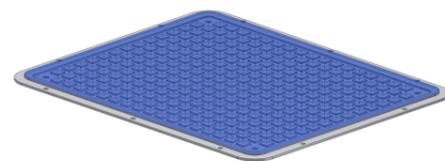
Currently available with products size up to 20" in diameter.



Diffusion

Bonding

- Precision cleaning
- Pressurization
- Heating



適用事例

Applications

- ▶ 気体、液体を流し込む内部流路付石英（多層構造可能）

Quartz plate, with internal channel for gas or liquid flow (multi layer design).

- ▶ セラミックス等の異種材料の封じ込め

Containment of Ceramics or other materials.

- ▶ その他、機能部品

Other, functional components.

