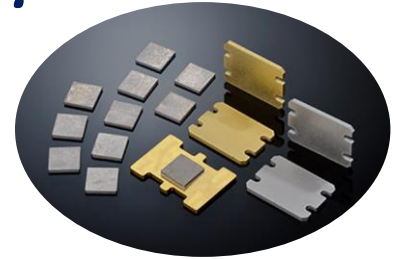


Heatspreader "Silver (Ag) -Diamond (AD90)"

- **High and Stable Thermal Conductivity!**
> 600 W/(m·K)
- **Available with Ni and Ni/Au plating**
- **Suitable for Silver-Brazing (800 °C)**



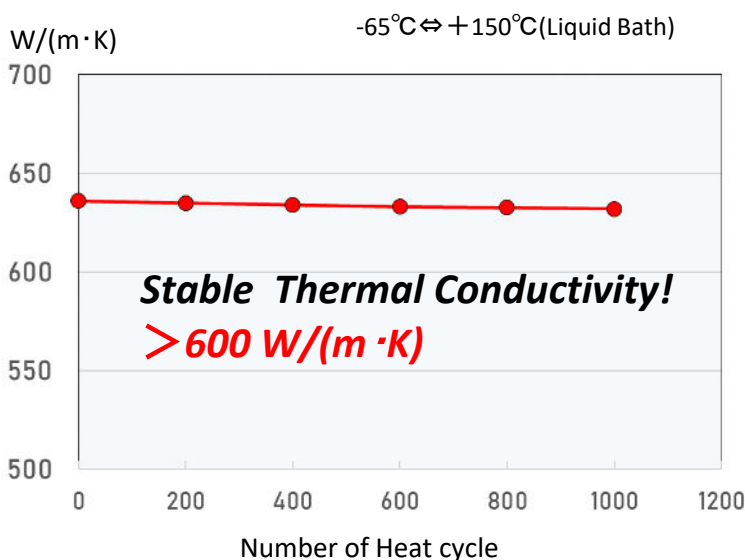
Properties (Typical)

Thermal Conductivity	> 600 W/(m·K)	
CTE	R.T. -- 400°C	9.5 10 ⁻⁶ /K
	R.T. -- 800°C	11.2 10 ⁻⁶ /K
TC after heat-treatment at 800°C	No change	
Specific Gravity	5.9 g/cm ³	
Specific Heat	0.34 kJ/(kg·K)	
Young's Modulus	340 GPa	
Poisson's Ratio	0.24	

Design Guide

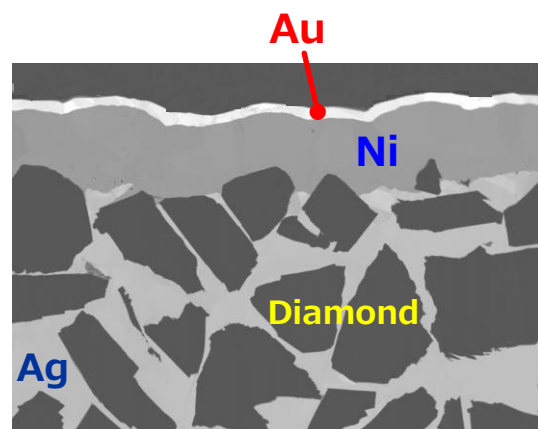
Size	Max. 50.0 sq.mm, Tolerance ±0.05 mm
Thickness	0.2 - 2.0 mm
Surface Roughness	Ra 1.0 μm
Plating	Ni, Ni + Electrolytic Au

Influence on Heat cycle of TC



Plating

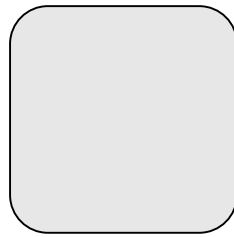
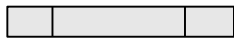
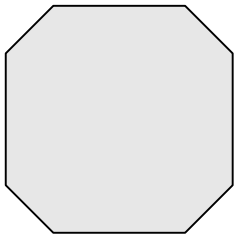
Cross section of Ag-Diamond after Ni/Au plating



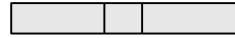
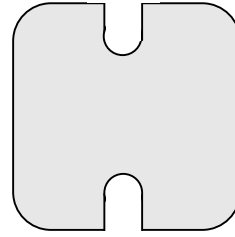
Heatspreader “Silver (Ag) -Diamond (AD90)”

Available

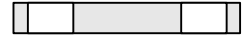
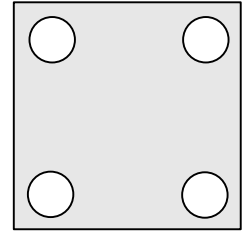
Chamfer/Round



Notch

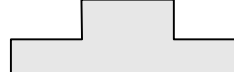
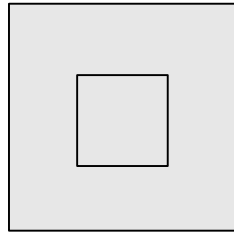
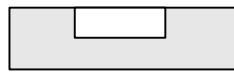
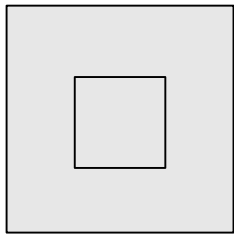


Through hole

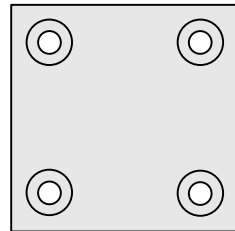


Not available

Step shape



Counter bore



**Square hole
Elliptical hole**

