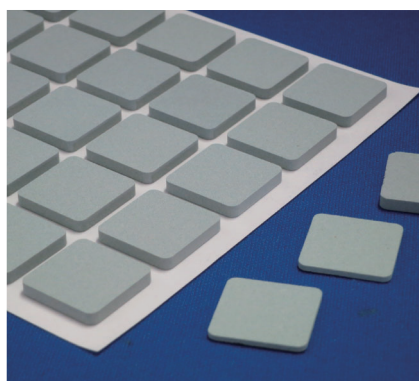
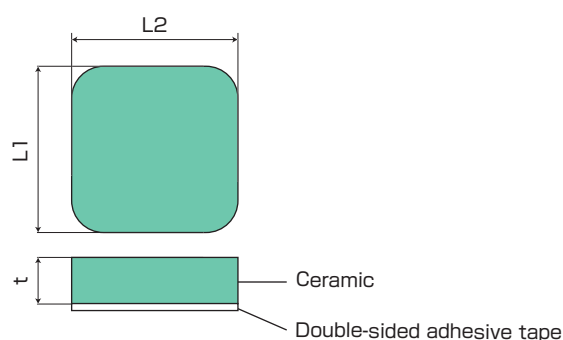


CERACOLD / CECD**Porous ceramic-based heat sink for excellent heat dissipation****Features**

- Larger surface area of porous ceramic heat sink improves thermal emissivity and heat dissipation compared to standard aluminum heat sinks.
- Ceramic heat sinks are approximately 30% lighter than aluminum heat sinks.
- Unlike metal heat sinks, ceramic heat sinks do not emit electromagnetic radiation.

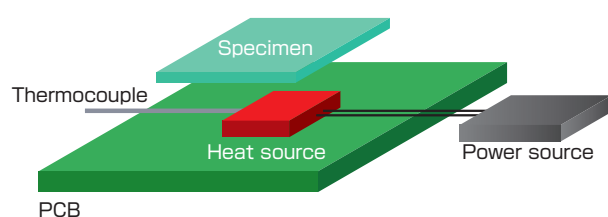
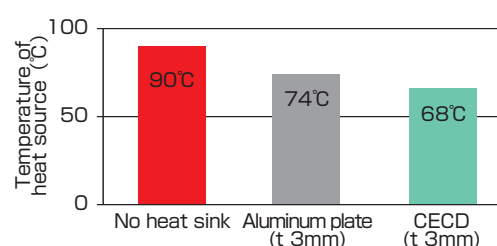


(Unit:mm)

Part Number	Thickness:t	L1	L2
CECD-1.5-020020T	1.5	20	20
CECD-3.0-020020T	3.0	20	20
CECD-3.0-040040T	3.0	40	40

(The values are measured values, but not the product specifications or guaranteed.)

Test type	Unit	Standard	CECD
Thermal Conductivity	W/m·K	JIS R 2616 (Hot-wire method)	11.5
Color	—	—	Green
Specific Gravity	—	JIS Z 8807	1.95
Volume Resistivity	$\Omega \cdot \text{cm}$	JIS K 6911 compliant	$\geq 10^8$
Operating temp	$^{\circ}\text{C}$	—	-40~125

Heat dissipation efficiency**Heat conductive characteristics****Comparison of Heat Sink Efficiency**

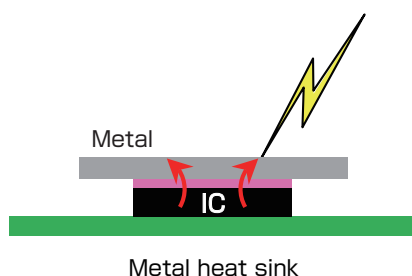
〈Test conditions〉

Heat source: □10mm(1.6W)

Specimen dimensions: □20mm(t3mm)

EMI noise issues with metal heat sink

Stray capacitance occurs between the IC chip (noise source) and the heat sink (not grounded), which becomes an antenna and emits radiated noise.



CECD ceramic heat sink is electrically insulating.

CECD is not affected by electrostatic coupling

and does not function as an antenna to radiate noise.

