

# High Conductivity Aluminum Diamond Heat Spreader AS-D60

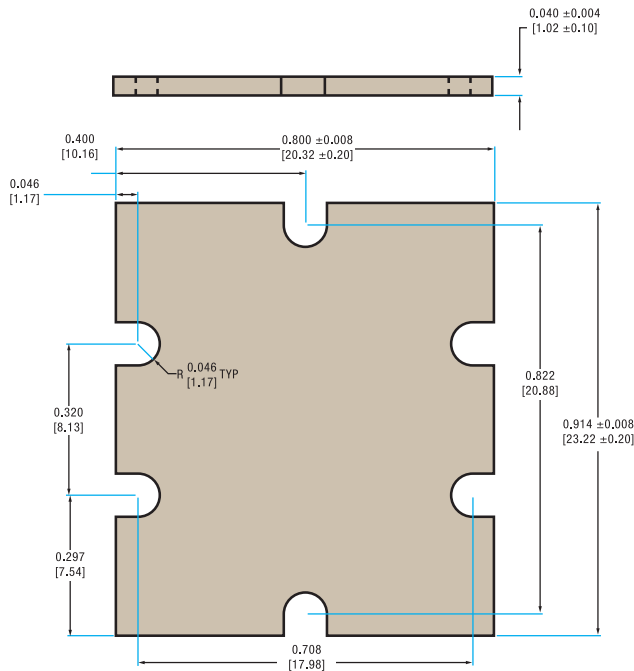
for Industrial, Space and Aerospace Applications



Product Sales Sheet

Validity: September 1, 2018 - December 31, 2018

## Al-Diamond Dimensions & Tolerances



## BENEFITS

- Thermal conductivity reaching 500 W/mk
- CTE matched to various semiconductor materials
- Heat spreaders provided with Ni/Au electrolytic or electroless plating

## AL-DIAMOND AS-D60 MATERIAL PROPERTIES\*

- Thermal Conductivity (RT):  $\geq 450$  W/mK (thickness  $\geq 0.76$ mm to 1.3mm)
  - Thermal Conductivity (RT):  $\geq 500$  W/mK (thickness  $\geq 1.3$ mm)
  - Thermal Expansion (RT-400°C):  $8.0 \times 10^{-6}/K \pm 0.5$  (thickness  $\geq 0.76$ mm to 1.0mm)
  - Thermal Expansion (RT-400°C):  $7.6 \times 10^{-6}/K \pm 0.5$  (thickness  $\geq 1.00$ mm to 1.30mm)
  - Thermal Expansion (RT-400°C):  $7.2 \times 10^{-6}/K \pm 0.5$  (thickness  $\geq 1.30$ mm)
  - Density: 3.10 g/cc to 3.26g/cc
  - Specific Heat: 0.62 J/gK
  - Flexural Strength: 300 MPa
  - Modulus: 340 GPa
  - Electrical Conductivity:  $\leq 3.7 \times 10^{-7}$  ohm•m
- \*Typical properties. Actual results may vary

NMIC P/N	DESCRIPTION	MIN QTY	MAX QTY	PRICE
64-W5823C01A	Al-Diamond AS-D60, 0.800" x 0.914" x 0.040" Ni/Au Plated (4.0 micron Nickel, 2.0 Micron Gold)	500	1,000	\$230.50

Shipping and handling apply. Export restrictions may apply based on end country and application.

