COPPER CLIPS

TECHNICAL DATASHEET



COINING's Copper Clips reduce total cost and streamline production. Our Copper clips provide the necessary connections within the MOSFET and IGBT within EV applications. Copper Clips improve reliability by eliminating areas of high current density.

Advantages:

- High Electrical Conductivity
- High Thermal Conductivity
- Ease of Manufacture
- Customizable

Copper: CDA 102 Oxygen - Free	
Physical Properties	
Composition	Cu 99.99% min
	Oxygen 0.0010% max
Solidus	1083C (1981°F)
Density	8.90 kg/l
Thermal Conductivity	383 391 $W.m^{-1}.K^{-1}$
Electrical Conductivity	100% IACS
Electrical Resistivity	1.69 - 1.73 μΩ cm (at20°C)
Coefficient of Thermal Expansion	17.0 ppm/C (at 20°C)
Poisson Ratio	0.31
Hardness	75 - 90 Hv
UTS	2150-0254 (soft annealed)
	261 - 441 (hard)
Yield Stress	49 - 78 MPa (varies with temper and cold work)
Elasticity Modulus	117GPa

COINING™ / AMETEK® COMPONENTS AND WIRE

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Copper: CDA 194	
Physical Properties	
Density	8.78 g/cc
Electrical Resistivity	0.00000266 ohm-cm @Temperature 20.0 °C

Copper: CDA 110	
Physical Properties	
Color	Copper
Melting Point (Solidus)	1981°F (1083°C)
Flow Point (Liquidus)	1981°F (1083°C)
Brazing Temperature Range	2000°F - 2150°F (1093°C - 1177°C)
Specific Gravity	8.94
Density (lbs/in^3)	0.323
Electrical Conductivity (%IACS) [1]	101
Electrical Resistivity (Microhm-cm)	1.71

[1] IACS = International Annealed Copper Standard

Contact Us

Ask An Enginer a technical question, by simply scanning the QR code and drop us a line.

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