

CHEMTRONICS

Technical Data Sheet

TDS # CW2200

CircuitWorks[®] Conductive Pen

PRODUCT DESCRIPTION

CircuitWorks[®] Conductive Pen makes instant highly conductive silver traces on circuit boards. CW2200 is used in prototype, rework, and repair of circuit boards by linking components, repairing defective traces, and making smooth jumpers. The silver traces dry in minutes and have excellent adhesion to most electronic materials. Engineers, repair technicians, and manufacturers will find that the CircuitWorks[®] Conductive Pen speeds project completion and cuts rework time.

- Single component system
- High electrical conductivity
- Fast drying
- Highly adherent to circuit boards
- Operating temperature to 400°F (205°C)

TYPICAL APPLICATIONS

CircuitWorks[®] Conductive Pen may be used for electronics applications including:

- Circuit Trace Repair
- Solderless Linking of Components
- EMI Shielding
- Solderable Terminations
- Quick Prototype Modifications

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Composition

Material	Silver Filled Polymer
Silver Particle Size	10-15 microns
Color	Silver Gray
Setting Rate	<2mm/hr.

Properties

Conductivity	0.02-0.05 ohms/sq/mil 0.00005-0.000125 ohm cm
Max. Temperature	400°F (205°C)
Tack-Free Time @ 25°C	3 to 5 Minutes
Cure Time @ 25°C	20 to 30 Minutes
Solder Wetting	2 to 3 Seconds
Electrical Conductivity	Excellent
Adhesion	Excellent
Flexibility	Good
Chemical Resistance	Good
Tip Diameters	
MTP	0.8 mm (0.03 inches)
STP	1.2 mm (0.05 inches)

Shelflife

16 months

COMPATIBILITY

CircuitWorks[®] Conductive Pen material has excellent compatibility with materials used in printed circuit board fabrication. As with any chemical system, compatibility with the substrate must be determined on a non-critical area prior to use.

