ELECTROLUBE
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DCA_LV

Silicone Conformal Coating

Product Description

DCA_LV is a transparent, flexible, silicone conformal coating and is specifically designed for reducing VOC content. DCA_LV has excellent mechanical and dielectric properties even after thermal cycling.

Features

- Excellent adhesion to a wide variety of substrates
- Reduced VOC content
- Excellent dielectric properties and insulativity properties
- Excellent mechanical properties, including abrasion resistance and low temperature resistance

Approvals:

MIL Approval (MIL- 1- 46058C):	**Meets approval**
RoHS Compliant (2002/95/EC):	**Yes**

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Liquid Properties:

Appearance:	Clear liquid
Specific Gravity (Density) @ 20°C:	0.97
NVC-Forced Draft Volatility:	55%
Viscosity @ 20°C:	240 cps
Touch Dry:	10 minutes

Dry Film Coating:

Colour:	Clear
Hardness:	Shore D 20
Flammability:	Meets UL94 V- 0
Dielectric Strength:	18kV / mm
Volume Resistivity:	$0.5*10^{14}\Omega$ cm
Operating Temperature Range:	-65°C to +200°C
Moisture Resistance (MIL-1-46058C):	Meets approval

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Packaging	Description	Order Code	Shelf Life
DCA_LV Conformal Coating	5 Litre Bulk	DCA_LV_05L	24 Months
Thinner for DCA_LV	5 Litre Bulk	DCTE_05L	36 Months

Directions for Use

DCA_LV can be sprayed, dipped or brushed. As is the case for all solvent based conformal coatings, adequate extraction should be used (refer to MSDS for further information).

Substrates should be thoroughly cleaned before coating. This is required to ensure that satisfactory adhesion to the substrate is achieved. Also, all flux residues must be removed as they may become corrosive if left on the PCB. Electrolube manufacture a range of cleaning products using both hydrocarbon solvent and aqueous technology. Electrolube cleaning products produce results within Military specification.

Curing

DCA_LV can be cured either at room temperature or by an accelerated heat cure at 75°C to 100°C.

DCA_LV is cured at room temperature by reaction with moisture in the air. A 75um thick coating will be tack free in 10 minutes at room temperature, followed by 10minutes at 80°C. If the coating blisters or contains bubbles allow additional time at room temperature for the solvent to flash off prior to oven cure.

Inspection

DCA_LV contains a UV trace, which allows inspection of the PCB after coating to ensure complete and even coverage. The stronger the reflected UV light, the thicker the coating layer.

Version：2

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