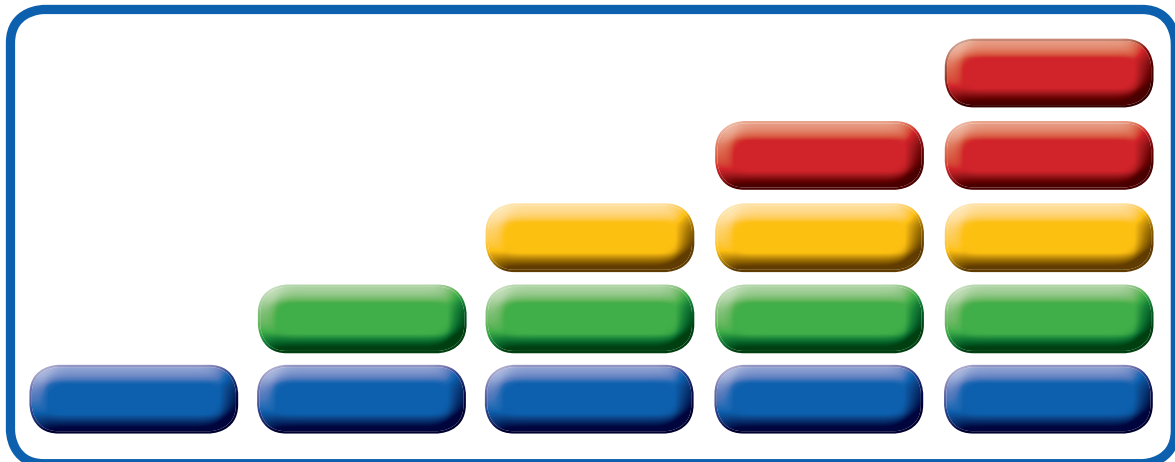


# Current Electronic Protection Technologies

## Protection Required for Electronic Components

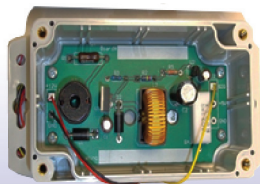
- Inhibit current leakage and short circuits due to humidity, condensation and contamination from service environment
- Absorption of thermal load to aid in heat dissipation
- Absorption of mechanical load, such as vibration dissipation
- Protect components against harsh environments



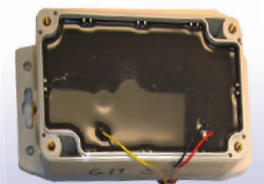
Conformal Coatings  
Moisture Protection



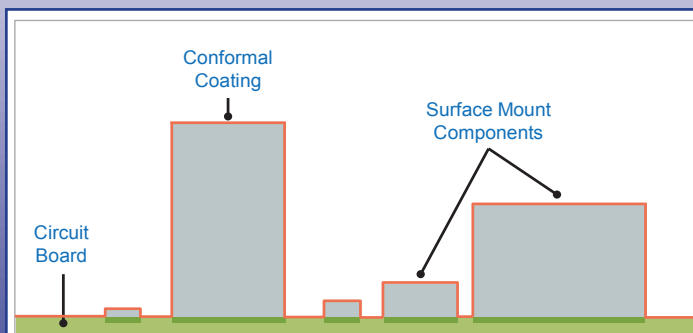
Potting Compounds  
Vibration Dampening



## Comparison of Properties

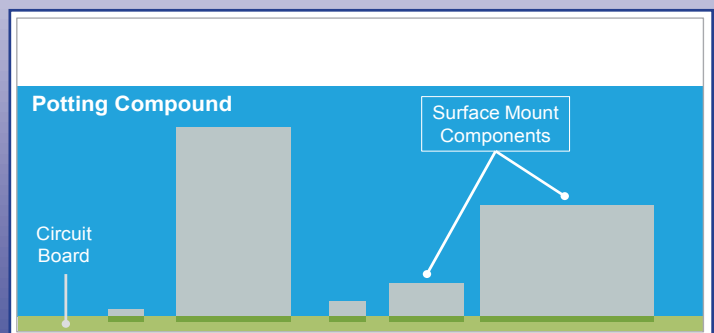


### Conformal Coatings



- + Basic protection against moisture and dust
- Vertical surface coverage can be thin
- Little protection for vibration

### Potting Compounds



- + Basic protection against moisture and dust
- + Full protection including mechanical shock, vibration & heat dissipation
- Adds weight and cost to the component

**How can you get potting performance with conformal coating convenience?**

**The answer?**

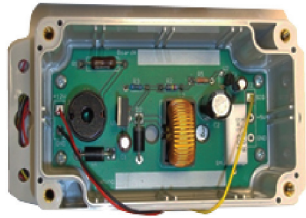
**CONASHIELD™** from



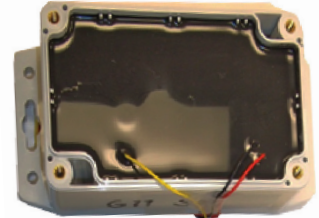
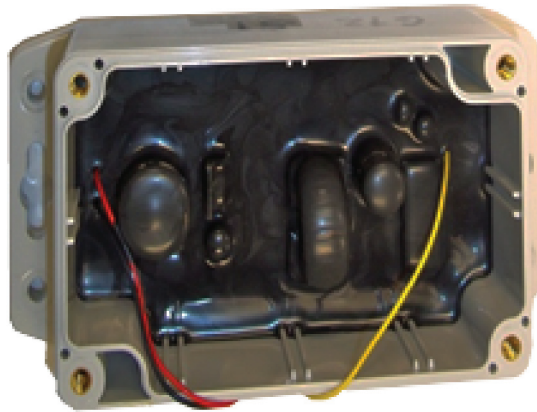
(Details on Back)

# CONASHIELD™

"Flood Coat" Technology

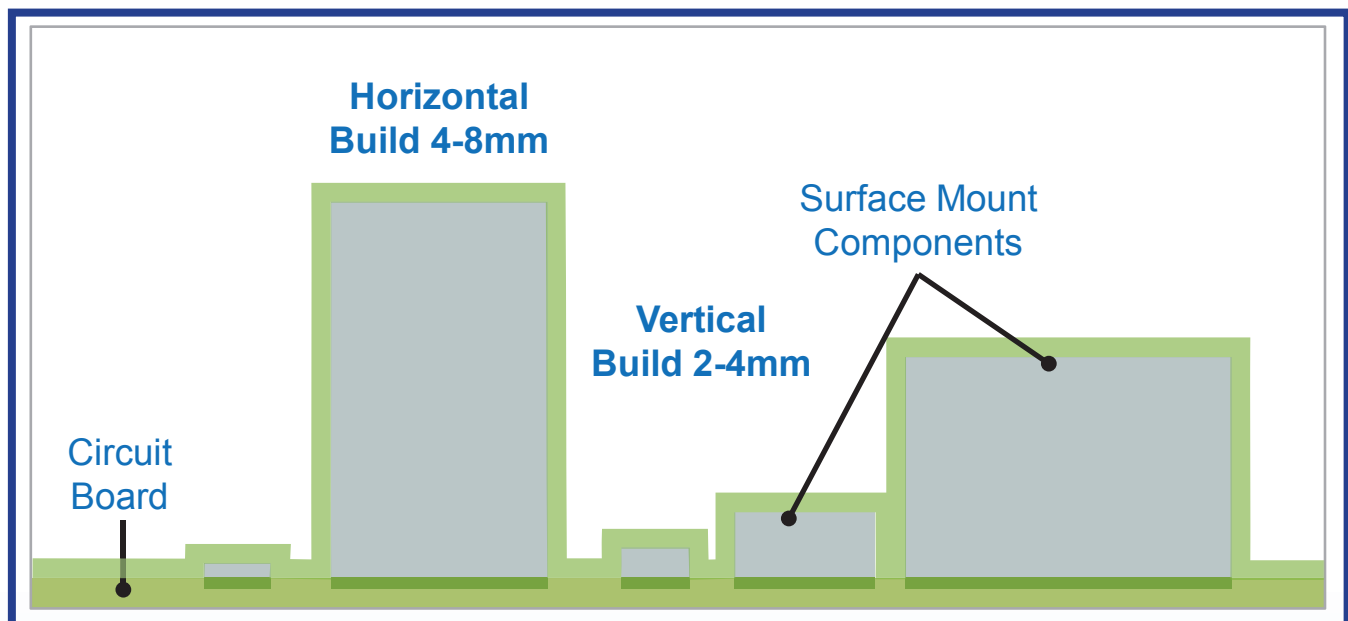


Conformal Coatings



Potting Compounds

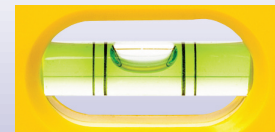
## A True Balance of Properties



## Potting Performance *with the Convenience of Conformal Coating*

	Potting	Conformal Coating	CONASHIELD™ Flood Coat
IPC water test	Pass	Pass	Pass
Processing time (sec)	30	30	30
85°C/85RH aging test; 500 hrs	Pass	Pass	Pass
HALT* Thermal Shock	Pass	Pass	Pass
HALT* Thermal & vibration	Pass	Fail	Pass
Thermal cycling (-40°C-120°C)	100 cycles	100 cycles	100 cycles
Material weight, grams	200 – 220	8 - 10	80 - 85

\* HALT = Highly Accelerated Life Test



### A Balance of Properties

- ✓ Moisture and chemical resistance with heat dissipation
- ✓ Protection against mechanical shock and vibration
- ✓ Convenient dispensing similar to conformal coating
- ✓ Up to 60% Weight Reduction vs. Potting

**Comparable Performance to Standard Potting Systems**  
*with a 30 to 60% reduction in weight*

**Better Electronic Insulation and Vibration Dampening Properties than Traditional Conformal Coating Systems**

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