

Electronic Component Anti-Counterfeit Solution*Preliminary Datasheet***Product Description**

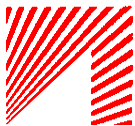
Lutracore is a chemically coded feature (Taggant) that is applied at the manufacturers site during the manufacturing process.

Lutracore is not just one ingredient that determines its security. Lutracore is potentially millions of coded arrangements of chemical codes in combinations and amounts that determine its properties.

The coding system (patented, additional patents pending) contains information about where the product was produced and by whom.

Typical Properties

Coating	Chemical coded feature
Polymer	Inert ingredients added to polymer
Color:	Clear
Adhesion	Superior adhesion to a wide variety of substrates including most metals, ceramics, glass, plastics and epoxy
Thickness	5 mil
Consistency	Smooth flowing
Reflow solder durability	Yes
Operating Temperature range:	-40 to +85 C, -55 to +125 C
Storage Temperature Range:	-40 to +125 C
Non-Destructive Detection	Yes
Field Detectable	Yes
Detectable via the naked eye	No
Detection:	Spectroscopic
Detection formulation	Single to multiple Taggants
RoHS Compliant	Yes
Reach Compliant	Yes
WEEE Compliant	Yes
Detection speed	1 sec per unit
Supply chain detection	Yes
Accuracy	Distinguishes brands, dates of manufacture, batches, improper handling and adulterants
Spectroscopy	Yes, NIR (Near-Infrared Spectrometers) available from Cardinal for its customers and distributors worldwide at a modest cost
Target products	Electronic components, Modules, PCB's
Applications	Medical, Military, Security, Defense, High value systems, etc.



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