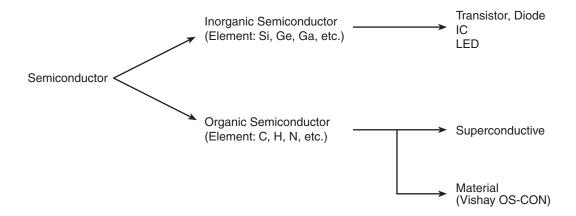
Vishay OS-CON



Solid Aluminum Capacitors With Organic Semiconductor Electrolyte

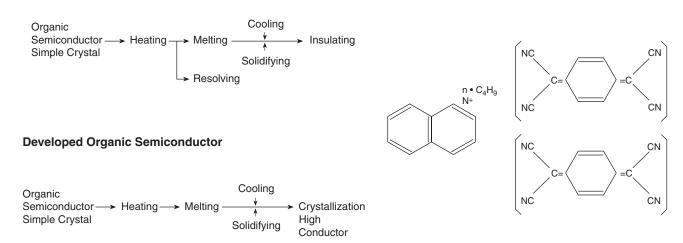
VISHAY OS-CON SEMICONDUCTOR



VISHAY OS-CON ORGANIC SEMICONDUCTOR

Conventional Organic Semiconductor

TCNQ Complex Salt



N-n-butyl Isoquinolinium (TCNQ)₂

FEATURES OF ORGANIC SEMICONDUCTOR AS ELECTROLYTE

- High conductivity (low resistance value) compared to other electrolytes.
- High conductivity provides stability against temperature.

TYPE OF CAPACITOR	TYPE OF ELECTROLYTE	CONDUCTIVITY (mS/cm)*
Non-solid Electrolyte Capacitor	Electrolyte Solution	3
Solid Electrolyte Capacitor	Manganese Dioxide	30
Vishay OS-CON Capacitor	Organic Semiconductor	300

^{*}Conductivity comparisons are abbreviated values.

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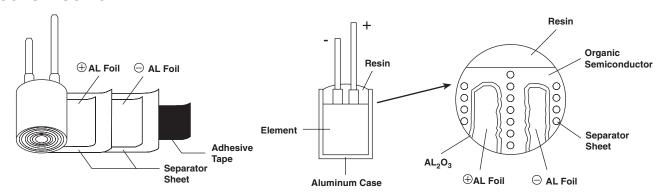




Solid Aluminum Capacitors With Organic Semiconductor Electrolyte

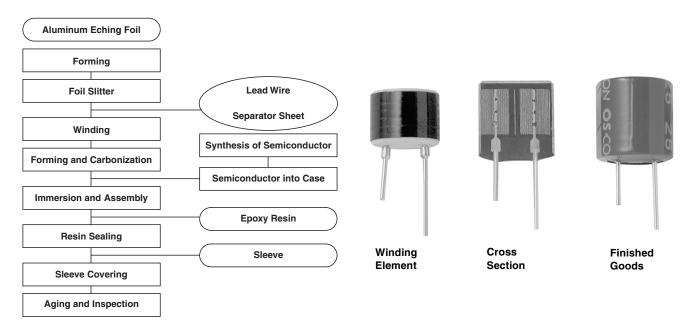
Vishay OS-CON

CONSTRUCTION



Vishay OS-CON capacitors are roughly the same construction as an aluminum electrolytic capacitor, and uses a rolled aluminium foil in its capacitor element. Vishay OS-CON differs from the alumnium electrolyte capacitor in that in place of the electrolyte solution, organic semiconductor crystal is impregnated, and the Vishay OS-CON capacitor is encased with an epoxy resin instead of a rubber encasing (Type 94SVP has a rubber encasing, others have resin encasing).

MANUFACTURING PROCESS



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