

COOLPOLY® THERMALLY CONDUCTIVE PLASTICS

FOR RESISTORS AND SWITCHES

CoolPoly thermally conductive injection molding grade thermoplastics are ideal solutions for the packaging of resistors and switches. The plastic package provides electrical isolation and transfers heat. Hot spots are eliminated and device temperature is lowered.

Injection molded thermally conductive thermoplastics have manufacturing or cost advantages compared to ceramic and thermoset packages. Thermally conductive thermoplastics significantly lower the device temperature resulting in improvements in power capacity, stability, tolerance, form factor, and expected lifetime.

CoolPoly D5502 thermally conductive LCP is designed for encapsulation of resistors and switches. D5502 has approximately 10 times the conductivity of conventional plastics.



Compared to conventional encapsulating materials, CoolPoly thermally conductive plastics:

- LOWER DEVICE OPERATING TEMPERATURES
- ELIMINATE "HOT SPOTS"
- SIMPLIFY MANUFACTURING AND REDUCE CYCLE TIMES

CoolPoly thermally conductive compounds are molded on conventional injection molding equipment achieving productivity advantages versus other manufacturing methods.