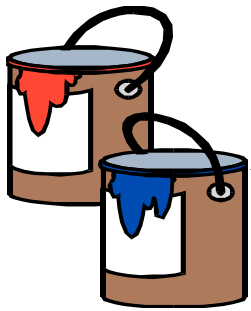


## Hybrid Inks



Do you know what makes a thick film hybrid from Hybrid Electronics so precious? *The precious metals in the Ink!*

Precious metals such as Silver, Platinum, Palladium, Gold, Ruthenium and Rhodium. These precious metals are expensive, however as hybrid inks, they go a very loooooong way!

**Conductor Inks** are made up of Silver Palladium, Platinum Silver, Gold, Platinum Gold and Platinum Palladium Silver. They are printed, dried and fired to make fine line screen printed tracks and gaps as fine as 0.12mm. Ask us how even finer tracks and gaps down to 0.05 mm can be produced!

**Dielectric Inks** are made up of borosilicate glasses and are used as multi-layer insulators for both stainless steel and ceramic hybrids. Dielectric inks can also be used to print capacitor dielectrics onto the hybrid circuit.

Successive conductor and dielectric (insulator) ink prints and firings allow the production of a multi-layer hybrid circuit. No through hole processes are required as multi-layer connection is through vias in the dielectric inks.

## Resistor Inks

**Resistor Inks** calibrated in ohms per square are printed and fired for our stainless steel and ceramic hybrids therefore replacing surface mount and through hole resistors used on PCB's. Benefits of the hybrid resistor inks include 50 ppm/°C temperature coefficient over most of the wide range covering fractional ohms to gigohms. Hybrid resistors can be printed under surface mounted components. Resistors can be laser trimmed to any design value and can be trimmed as a ratio with other resistors to give even more precise circuits. Final hybrid circuits can be functionally calibrated for the ultimate in precision.

**Sensing Resistor Inks** such as our high reliability *thermistor* material (TCR-1%/°C) and our high sensitivity *strain gauge* resistor (strain factor~14), make our hybrids even more precious. Sensing Resistors are used on hybrid products such as fluid flow sensors (including high sensitivity, high speed), load cells, weighing scales and pressure transducers. Complete products on stainless steel hybrids can be incorporated with sensing resistor inks, microprocessor controls and high powered

**Hybrid Inks give thick film hybrids inherent advantages of smaller size, higher reliability, secrecy, greater precision and lower cost than PCB's.**

**Just Try To Resist Our Resistor Inks !**