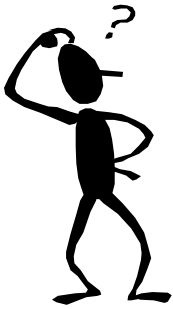


Why is it called a Thick Film Hybrid?



Why is it called a “Thick Film” Hybrid? For those who have thought of the same question but have been afraid to ask, read on to find out the answer! Thick Film Hybrid microcircuit technology involves the precision screen printing and firing of conductors, resistors and dielectrics (or insulators) onto a ceramic or stainless steel substrate for multi layer circuitry. The screen printing inks are based on noble metals, such as platinum, palladium, silver, ruthenium and numerous glassy oxides. These are subsequently fired at temperatures ranging from 600°C to 930°C to form conductors, resistors and insulators for capacitors and multi layer crossovers. The high firing temperatures burn away the organic components of the ink, while the glass components of the ink fuse and bond the precious metals. These form relatively **thick composite films** (approximately 20 micron) onto the ceramic or stainless steel substrate. The word “Hybrid” comes from the mixing of semiconductor and thick film technologies to form the hybrid integrated circuit.

If you would like more information on thick film hybrids please telephone +61 3 9729 2177 or visit our Website at www.hybrid-electronics.com

Did you Know?



Did you know that Hybrid Electronics manufacture Thick Film Hybrid Sensors on ceramic and stainless steel substrates? The type of Hybrid Sensors include, but are not limited to; Temperature, Flow, Strain Gauge, Pressure, Position, Level, Tilt, Capacitance, Inductance, Optic Electronics, Gravitational and Humidity.

Why not consider Hybrid Sensors for your project? The Thick Film Hybrid Sensor can be integrated into the amplifier electronics to give you the lowest cost and highest performance functional module.

Extreme Fine Line Technology



Hybrid Electronics manufactures Thick Film Hybrid technology that can be used to form extremely fine circuit lines, widths and gaps (as low as 25 micron). This technology can be used to make extremely dense circuitry as well as printed inductors. The fine line technology performed at Hybrid Electronics is not “Thin Film Hybrids” but a lower cost alternative. Thin Film Hybrids are manufactured by a different process to that of Thick Film Hybrids. A Thin Film Hybrid is created by vacuum evaporation or vacuum sputtering a thin layer onto a glass or ceramic substrate. Hybrid Electronics do not manufacture Thin Film Hybrids. *Contact us for more information!*

“HYBRID” stands for **“Helping You Build Revolution In Design”** !