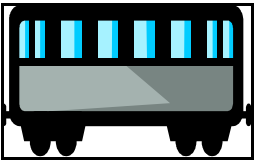


Celebrating 25 Years

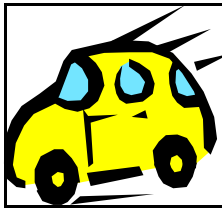


Hybrid Electronics Australia is celebrating its 25th Birthday this month! The following articles are some of the latest innovative projects Hybrid Electronics is working on. If you have any questions regarding an article or the application of thick film hybrids please don't hesitate to contact us.

Train Data Logger



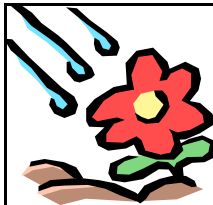
Fischer Industries manufacture data loggers for electric trains. The data loggers measure and record speed, distance, all operational signals and air pressures. Fischer Industries are using a package of hybrids i.e. digital data input hybrids and analogue data input hybrids because of their modularity, reliability, precision and size. The hybrids have improved the reliability, stability and measuring accuracy of the data loggers. Other benefits of the hybrids include the quality of the resistor matching and their encapsulation in epoxy resulting in reliability in difficult environments of both high and low temperatures, moisture and vibration. Finally, unlike printed circuit boards which are only tested on completion, hybrids are progressively tested throughout the entire assembly process.



Crank Angle Sensor

Injectronics Australia manufacture crank angle sensors for the automotive electronic repair industry. For the electronic micro-circuitry, Injectronics needed precision performance, wide temperature operation and encapsulation - all at a competitive price. Hybrid Electronics are able to meet these criteria with a thick film hybrid. With hybrids, the resistors are printed with special ink onto the ceramic substrate rather than being soldered onto a printed circuit board. As a consequence, the hybrids are fired and trimmed to the customer's precise resistor specification value. The hybrids maintain their accuracy over a wide temperature range as the ceramic substrates have excellent thermal rating capabilities.

Irrigation System



Hybrid Electronics manufacture an irrigation control hybrid for Intelligent Irrigation Systems. The hybrid integrated circuit in conjunction with a custom made probe detects the irrigation flow front. This is used to determine when to turn off the particular irrigation loop under power and transfer power to the next loop in a chain of multiple irrigation loops. The benefit of the hybrid for this product is its small size, modularity and full encapsulation for burial in the soil. This is a major cost saving as it does not need to be mounted in a hermetic box as would be required for a printed circuit board.