



INNOVATION NEWSLETTER

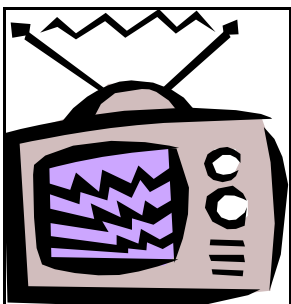
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Welcome to Hybrid Electronics first newsletter. This newsletter will be sent out quarterly informing you of the latest innovative projects Hybrid Electronics is working on. Please note the information has been approved by our customers. If you have any questions please contact us. Enjoy reading!

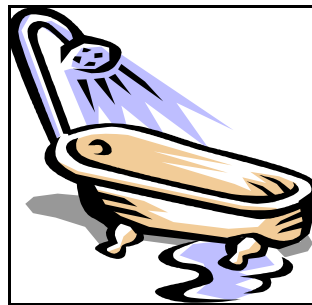
Low Noise Amplifier



Hybrid Electronics has been greatly involved in the development and launch of a Low Noise Amplifier (LNA) for Television manufacturers. The LNA improves the picture quality

for weak signals while still holding an acceptable intermodulation figure. The application of precision high frequency actively trimmed resistors and the printing of single layer capacitors up to 1nF has ensured the competitive advantage of the technology. Other benefits of the thick film hybrid are miniaturisation and encapsulation thus making it difficult to reverse engineer. Further applications of this technology include satellite and communication receivers.

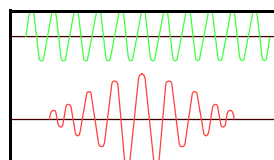
Water Pump Flow Controller



The water pump flow controller, incorporating a thick film hybrid substrate, designed jointly by Hybrid Electronics and our customer gives strong, even water pressure. This

enables you to have a great shower! Also the flow controller is designed to automatically turn the pump off if the supply of water is insufficient for the pump to operate. This protects the pump from dry running. The latest model also has a unique cold start feature which enables the pump to function in the most extreme saltwater environments as well as reducing standby power and heat. The benefit of the thick film hybrid is calibration precision, wider temperature range of operation and encapsulation for the high moisture environment.

A Signal Converter



This signal Converter, converts AC voltage measurement to a standard 4mA→20mA current.

One benefit of the hybrid is the precision of the resistor matching for gain adjustment (0.2% ratio). In addition the precision active calibration of the gain and offset of the final circuit reduces calibration time and gives long term stability.