

C-MAC MicroTechnology upgrades test house with new solderability testing capability

C-MAC's UK-based testing expertise expanded to meet upgraded IEC 68, MIL-STD 883 and MIL-STD 202 test methods for electronics in military applications



Buckinghamshire, 1st April 2008 – C-MAC MicroTechnology, a world leader in high-reliability electronic systems, modules and components for the automotive, aerospace, defence, space, high-reliability industrial, specialised communication and medical electronics industries, today announced the enhancement of its leading Laboratory Suitability accredited testing facility with significant investment in new solderability testing capability.

Component failure at board level is often attributed to solder joint faults. C-MAC's new solderability testing capability provides reassurance for component manufacturers and users by reducing the risk of faults leading to improved yields and reliability.

The new solderability test process works by dipping a component's terminations into a tin lead solder amalgam at 245°C for five seconds. This is performed under strictly controlled rates of immersion and emersion to ensure that the solder covers 95% of the surface area. This guarantees that the component can be properly attached to the circuit board it is intended for .

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This new service joins C-MAC's wide range of ISO 17025 accredited test methods which include; temperature cycle, thermal shock, high humidity, salt mist, salt corrosion, high and low temperature storage and insulation resistance, which have been a key element of C-MAC's test services for many years.

C-MAC's test house allows the rigorous testing of printed circuit board assemblies, hybrid modules and other electronic components employed in harsh environments, such as satellites, automotive applications and military aircraft. It is one of the few UK facilities used by C-MAC and other companies to ensure that components manufactured in Europe meet the stringent requirements of IEC 68, MIL-STD 883 and MIL-STD 202 test methods.

Paul Hill, General Manager, commented; "Our investment in the new solderability testing capability is further indication of C-MAC's commitment to maintaining the highest standards. As a leading European test facility we will continue to meet industry standards to ensure our products and our customer's products are rigorously tested to the highest level".

Notes for Editors:

Headed by Indro Mukerjee, **C-MAC MicroTechnology** is the world leader in high-reliability electronic systems, modules and components for the automotive, medical, communications and aerospace industries. Our head office is in Wooburn Green, UK, and we have design and manufacturing facilities in the UK, France, Belgium and Canada, with additional dedicated sales and customer support teams throughout Europe, the USA and China. We have built up an extensive intellectual property portfolio and considerable electronics design and manufacturing expertise geared to our target industries. Our products are often found in applications that operate in harsh environments, at extremes of temperature or frequency. The company is divided into two business groups.

C-MAC MicroTechnology offers unrivalled expertise in the design and manufacture of advanced high-precision microelectronics systems. Specialities at our production sites at Great Yarmouth in the UK, Sherbrooke in Canada and Ronse in Belgium include thick-film printing on ceramic and other substrates, surface-mount hybrid circuits, DC/DC power modules, direct-attach flipchip, low-temperature cofired ceramic (LTCC), chip-on-board (COB), multichip module (MCM) assemblies and PCB assembly. These manufacturing resources are complemented by an integrated design-to-test service encompassing ASIC design as well as analogue, digital, RF, mixed-mode and thermal simulation. Through our independently accredited test house facility, we can carry out product qualification and material evaluation to internationally recognized standards.

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