


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>0115</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>C-MAC MicroTechnology</h3> <p>Issue No: 027    Issue date: 24 September 2009</p>	
	<p><b>Test House Services</b> South Denes Great Yarmouth Norfolk NR30 3PX</p>	<p><b>Contact: Mr M Whelband</b> Tel: +44 (0)1493 856122 Fax: +44 (0)1493 856133 E-Mail: <a href="mailto:markwhelband@cmac.com">markwhelband@cmac.com</a> Website: <a href="http://cmac.com/services/testing/index.php">http://cmac.com/services/testing/index.php</a></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>AEROSPACE EQUIPMENT</p> <p>ELECTRICAL/ELECTRONIC COMPONENTS</p> <p>ELECTRICAL/ELECTRONIC CONNECTORS</p> <p>ELECTRICAL/ELECTRONIC PRODUCTS</p> <p>ELECTRO-MECHANICAL DEVICES</p> <p>MICRO-ELECTRONIC CIRCUITS AND COMPONENTS</p> <p>MISSILE COMPONENTS</p> <p>MOTOR VEHICLE ACCESSORIES AND COMPONENTS</p>	<p><b>ENVIRONMENT TESTS</b> (non-explosive items)</p> <p><b>CLIMATIC - Single Parameters</b></p> <p>HIGH TEMPERATURE Max temp: +200°C Max chamber size: 0.6 m x 0.6 m x 0.4 m</p> <p>LOW TEMPERATURE Min temp: -70°C Max chamber size: 0.5 m x 0.5 m x 0.3 m</p>	<p>BS EN 60068-2-2:2007 Tests Ba, Bb IEC 68-2-2:1974 (1976) MIL-STD 202G:2002 Method 108A MIL-STD 202F:1980 Method 108A MIL-STD 810F:2000 Method 501.4 MIL-STD 810E:1989 Method 501.4 MIL-STD 1344A:1977 Method 1005.1</p> <p>BS EN 60068-2-1:2007 Tests Aa, Ab IEC 68-2-1:1990 MIL-STD 810F:2000 Method 502.4 MIL-STD 810E:1989 Method 502.3</p>



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As listed on Page 1	<p><b>ENVIRONMENT TESTS</b> (non-explosive items) (cont'd)</p> <p><b>CLIMATIC - Single Parameters</b> (cont'd)</p> <p><b>TEMPERATURE CHANGE</b> (Thermal Shock)</p> <p>Rapid - Air to Air Temp range: -70°C to +200°C Max chamber size: 0.6 m x 0.6 m x 0.4 m</p> <p>Gradual Temp range: -70°C to +200°C Max chamber size: 0.5 m x 0.5 m x 0.3 m</p> <p>Rapid - Liquid to Liquid Temp range: -74°C to +160°C Max chamber size: 0.15 m x 0.15 m x 0.15 m</p> <p><b>HIGH HUMIDITY - steady state</b> Temp range: +10°C to +85°C Humidity range: 10% rh to 98% rh Max chamber size: 0.6 m x 0.6 m x 0.4 m</p> <p><b>HIGH HUMIDITY - cyclic</b> Temp range: +10°C to +85°C Humidity range: 10% rh to 98% rh Max chamber size: 0.6 m x 0.6 m x 0.4 m</p>	<p>BS EN 60068-2-14:2000 BS 2011:N:1985 (1987) Tests Na, Nb, Nc IEC 68-2-14:1984 IEC 6008-2-14:1984 MIL-STD 202G:2002 Method 107G MIL-STD 202F:1980 Method 107G MIL-STD 750D:1995 Methods 1051.5, 1056.7 MIL-STD 810F:2000 Method 503.4 MIL-STD 810E:1989 Method 503.3 MIL-STD 883F:2004 Methods 1010.8, 1011.9 MIL-STD 1344A:1977 Method 1003.1</p> <p>BS 2011:Ca:1977 (1987) BS 2011:Cb:1990 IEC 68-2-3:1969 IEC 68-2-56:1988 MIL-STD 202G:2002 Method 103B MIL-STD 202F:1980 Method 103B</p> <p>BS EN 60068-2-30:1999 BS 2011:Db:1981 (1987) IEC 68-2-30:1980 MIL-STD 202G:2002 Method 106G MIL-STD 202F:1980 Method 106F MIL-STD 750D:1995 Method 1021.2 MIL-STD 810F:2000 Method 507.4 MIL-STD 810E:1989</p>



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ELECTRICAL/ELECTRONIC COMPONENTS, CONNECTORS AND PRODUCTS (cont'd)	<p><b>ELECTRICAL TESTS</b> (cont'd)</p> <p>DC Current: 1 <math>\mu</math>A to 10 A</p> <p>AC Current: 1 <math>\mu</math>A to 2 A (45 Hz to 5 kHz) 2 A to 10 A (45 Hz to 1 kHz)</p> <p>DC Resistance: 100 <math>\mu\Omega</math> to 20 M<math>\Omega</math> 20 M<math>\Omega</math> to 1 T<math>\Omega</math> (1 V to 999 V)</p> <p>Capacitance: 200 pF to 1.9 F (100 Hz/120 Hz) up to 200 mF at 1 kHz up to 2000 <math>\mu</math>F at 10 kHz up to 20 <math>\mu</math>F at 100 kHz up to 2048 pF at 1 MHz</p> <p>Inductance: up to 1 kH (100 Hz/120 Hz) up to 6.4 kH at 1 kHz up to 20 H at 10 kHz up to 2 H at 100 kHz up to 2 mH at 1 MHz</p> <p>Dissipation factor: 0 to 1 (100 Hz to 100 kHz) 0 to 0.1 at 1 MHz</p> <p>Conductance: 0.1 <math>\mu</math>S to 100 S (100 Hz to 1 MHz)</p> <p>Frequency: 5 Hz to 100 MHz</p>	
	END	