


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING</p> <p>2555</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Atlantic Inertial Systems Limited</p> <p>Issue No: 014 Issue date: 03 March 2021</p>	
	<p>Cliffatford Road Southway Plymouth Devon PL6 6DE</p>	<p>Contact: Mr H Thomas Tel: +44 (0)1752 723316 E-Mail: Henry.Thomas@utas.utc.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>ELECTRO-MECHANICAL ASSEMBLIES</p> <p>GUIDANCE SYSTEMS</p> <p>AVIONICS ASSEMBLIES</p> <p>GYRO AND ACCELEROMETER SYSTEMS</p> <p>PRINTED CIRCUIT BOARDS</p>	<p>ENVIRONMENTAL TESTS (non-explosive items)</p> <p>CLIMATIC - Single Parameters</p> <p>HIGH TEMPERATURE Steady state & cyclic</p> <p>Max temp: +180°C Max chamber size: 0.6 m x 0.6 m x 0.6 m</p> <p>LOW TEMPERATURE</p> <p>Min temp: -70°C Max chamber size: 0.6 m x 0.6 m x 0.6 m</p>	<p>BS EN 60068-2-2:2007 B DEF 00-35 (Part 3)/4, Tests CL1, CL2 MIL STD 810G, Method 501.5 MIL STD 810F, Method 501.4 MIL STD 810E, Method 501.3 MIL STD 810D, Method 501.2 RTCA DO-160D, Section 5</p> <p>BS EN 60068-2-1: 2007 A DEF 00-35 (Part 3)/4, Tests CL4, CL5 BS 2011:Part 2.1:A:1990 MIL STD 810G, Method 502.5 MIL STD 810F, Method 502.4 MIL STD 810E, Method 502.3 MIL STD 810D, Method 502.2</p>



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As listed on Page 1	<p>TEMPERATURE CHANGE</p> <p>THERMAL SHOCK (air-air) Automated transfer Max temp: +150°C Min temp: -70°C Chamber size: 0.47 m x 0.65 m x 0.41 m</p> <p>CHANGE OF TEMPERATURE - Specified rate Max temp: +150°C Min temp: -70°C</p> <p>Rate of change: 15 K/min</p> <p>HIGH HUMIDITY - Steady State and cyclic Temp range: +10°C to +85 °C Humidity range: 10% rh to 85% rh Max chamber size: 0.58 m x 0.76 m x 0.75 m</p>	<p>BS EN 60068-2-14:2009 Na MIL STD 810G, Method 503.5 MIL STD 810F, Method 503.4 MIL STD 810E, Method 503.3 MIL STD 810D, Method 503.2 JESD22-A104-D</p> <p>BS EN 60068-2-14:2009 Nb</p> <p>BS 2011:Ca:1977(1987) IEC 68-2-3:1969 IEC 68-2-56:1988 BS EN 60068-2-30:2005 IEC 68-2-30:1999 MIL STD 810G, Method 507.5 MIL STD 810F, Method 507.4 MIL STD 810E, Method 507.3 MIL STD 810D, Method 507.2 JESD22-A101-C DEF 00-35 (Part 3)/4, Test CL6, CL7 RTCA/DO-160D, Section 6 BS EN 60068-2-38:2009 Z/AD BS EN 60068-2-78:2001Cab</p>



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As listed on Page 1	<p>DYNAMIC Single/Combined Parameters</p> <p>VIBRATION - Sinusoidal</p> <p>(a) at ambient conditions Freq range: 5 to 2500 Hz Peak thrust: 80 kN Max pk/pk displacement: 63.5 mm Max load: 1 tonne</p> <p>(b) with temperature Freq range: 5 to 5000 Hz Peak thrust: 12.9 kN Max pk/pk displacement: 38 mm Max load: 0.1 tonne Max temp: +180°C Min temp: -70°C Max chamber size: 0.6 m x 0.6 m x 0.6 m</p> <p>VIBRATION - Random</p> <p>(a) at ambient conditions Freq range: 5 to 2500 Hz Peak thrust: 53.4 kN Max pk/pk displacement: 63.5 mm Max load: 1 tonne</p> <p>(b) with temperature Freq range: 5 to 5000 Hz Peak thrust: 8.0 kN Max pk/pk displacement: 38 mm Max load: 0.1 tonne Max temp: +180°C Min temp: -70°C Max chamber size: 0.6 m x 0.6 m x 0.6 m</p>	<p>BS EN 60068-2-6:2008 Fc</p> <p>BS EN 60068-2-53:2010 BS 2011:Part 2.2:Z/AFc BS 2011:Part 2.2:Z/BFc</p> <p>BS EN 60068-2-64:2008 Fh DEF 00-35(part 3)/3, Test M1 MIL STD 810G, Method 514.6 MIL STD 810F, Method 514.5 MIL STD 810E, Method 514.4 BS 2011:Part 2.1:1973 (1983) Tests Fd, Fda, Fdb, Fdc RTCA DO-160D, Section 8 MIL STD 810D, Method 514.3 BS EN 60068-2-53:2010</p>



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As listed on Page 1	<p>DYNAMIC Single/Combined Parameters (cont'd)</p> <p>VIBRATION - Sinusoidal Sweep on Random</p> <p>(a) at ambient conditions Freq range: 5 to 2000 Hz Peak thrust: 8.00 kN Max pk/pk displacement: 25 mm Max load: 0.1 tonne</p> <p>(b) with temperature Freq range: 5 to 2000 Hz Peak thrust: 8.00 kN Max pk/pk displacement: 25 mm Max load: 0.1 tonne Max temperature: +180°C Min temperature: -70°C Max chamber size: 0.6 m x 0.6 m x 0.6 m</p> <p>SHOCK (Half sine waveform)</p> <p>Max severity: 1500 g Max load: 0.5 tonne Duration: 0.5 to 40ms (severity dependent)</p> <p>BUMP Max severity: 80 g Max item mass: 1000 kg Pulse duration: 30ms (severity dependent)</p>	<p>DEF STAN 00-35 (Part 3)/4, Tests M1 & M2 MIL STD 810G, Method 514.6 MIL STD 810F, Method 514.5</p> <p>BS EN 60068-2-27:2009 Ea IEC 68-2-27:1987(1993) BS 2011:Part 2.1:Ea:1988 DEF 00-35 (Part 3)/4, Test M3 MIL STD 810G, Method 516.6 MIL STD 810F, Method 516.5 MIL STD 810E, Method 516.4 MIL STD 810D, Method 516.3</p> <p>BS EN 60068-2-29:1993 Eb BS EN 60068-2-27:2009 Ea</p>
END		