


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0332</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>TRW Conekt</h3> <p>Issue No: 038 Issue date: 25 June 2007</p>	
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<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
METALS, ALLOYS, METAL PRODUCTS and METAL COMPONENTS	<p>1 MATERIALS TESTING</p> <p>Hardness: Vickers (Loads from 1 to 50 Kg) Vickers microhardness (Loads from 10 mg to 100 mg)</p> <p>Tensile at ambient temperature (Loads up to 50 kN)</p>	<p>BS EN ISO 6507-1:2005 and Documented In-House Method</p> <p>BS EN 10 002-1:2001 BS 4A4:Part 1:Section 1:1966</p>
METALLIC and NON-METALLIC MATERIALS	<p><u>Chemical Tests</u></p> <p>Semi-quantitative elemental micro-analysis - Atomic Numbers 5 to 92 - nominal limit of detection 0.1% by weight</p>	<p>Documented In-House Method M10 using scanning electron microscope with energy dispersive X-ray analyser</p>
ORGANIC FLUIDS, BRAKE FLUIDS, PLASTICS and RUBBERS	<p><u>Chemical Tests</u></p> <p>Identification of molecular structure (2.5 fm to 25 fm absorbance)</p>	<p>Documented In-House Method M14 and BS 4181:Part 1:1985(1990) using infra-red spectrometry</p>
RUBBERS	<p><u>Mechanical Tests</u></p> <p>Micro-indentation hardness (Wallace)</p>	<p>Documented In-House Method M57</p>



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Aerospace Equipment Alternators Electrical/Electronic Components Electro-mechanical Devices Engine Control Systems Generators Generator Control Units Ignition Systems IT Equipment Instruments Luminaires Microelectronic Circuits and Components Military Equipment and Material Motor Vehicle Components and Accessories Motor Vehicle Systems Power Supplies (Electrical) Transducers Voltage Regulators Weapon Systems	2 EMC TESTING 2.1 MILITARY AND AUTOMOTIVE 2.1.1 Conducted Emissions 20 Hz to 400 MHz	BS3G100:Part 4:Section 2: 1973/1980 CISPR 25:1995 CISPR 25:2002 DEF STAN 59-41:Issue 3:1988 DEF STAN 59-41:Issue 5:1995 Supplements A and B EUROCAE-ED-14D:1997 MIL STD 461A:1968 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461D:1993 MIL STD 461E:1999 MIL STD 462:1967 MIL STD 462D:1993 RTCA/DO-160A:1980 RTCA/DO-160B:1984 RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 SAE J1113/41 (1995) MVEE 595:1975 Boeing D6-16050-2, -3, -4, -5B, -5C Westland Agusta EA98Q010J:1986 ES-XW7T-1A278-AB, Section CE 410 and CE 420 Fiat 9.90110, Section 2.7.10
	2.1.2 Radiated Emissions 20 Hz to 40 GHz	BS3G100:Part 4:Section 2: 1973/1980 CISPR 25:1995, Class 1-4 CISPR 25:2002 DEF STAN 59-41:Issue 3:1988 DEF STAN 59-41:Issue 5:1995 Supplements D, E and F EUROCAE-ED-14D:1997 MIL STD 461A:1968 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461D:1993 MIL STD 461E:1999 MIL STD 462:1967 MIL STD 462D:1993 RTCA/DO-160A:1980 RTCA/DO-160B:1984



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As listed on Page 2	<p>2 EMC TESTING (cont'd)</p> <p>2.1 MILITARY AND AUTOMOTIVE (cont'd)</p> <p>2.1.2 Radiated Emissions (cont'd)</p>	<p>RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 SAE J1113/41 (1995) EC Directive 95/54/EC Annex VII and VIII MVEE 595:1975 Boeing D6-16050-2, -3, -4, -5B, -5C Westland Agusta EA98Q010J:1986 General Motors GM 9114P:1987 ES-XW7T-1A278-AB, Section RE 310 Fiat 9.90110, Section 2.7.9</p>
	<p>2.1.3 Conducted Susceptibility 10 kHz to 400 MHz</p>	<p>ISO 11452-1:1995 ISO 11452-4:1995 ISO 11452-4:2001 BS3G100:Part 4:Section 2: 1973/1980 DEF STAN 59-41:Issue 3:1988 DEF STAN 59-41:Issue 5:1995 Supplements G, H and J EUROCAE-ED-14D:1997 MIL STD 461A:1968 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461D:1993 MIL STD 461E:1999 MIL STD 462:1967 MIL STD 462D:1967 RTCA/DO-160A:1980 RTCA/DO-160B:1984 RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 SAE J1113/2 (1996) SAE J1113/4 (1998) EC Directive 95/54/EC Annex IX MVEE 595:1975 Boeing D6-16050-2, -3, -4, -5B, -5C Westland Agusta EA98Q010J:1986</p>



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As listed on Page 2	2 EMC TESTING (cont'd) 2.1 MILITARY AND AUTOMOTIVE (cont'd) 2.1.3 Conducted Susceptibility (cont'd)	ES-XW7T-1A278-AB, Section RI 112 Fiat 9.90110, Section 2.7.7
	2.1.4 Radiated Susceptibility 20 Hz to 18 GHz 14 kHz to 18 GHz 200 V/m 400 MHz to 1 GHz 700 V/m CW 1 GHz to 18 GHz 3000 V/m CW (duty cycle 1% up to 2 GHz and 6% up to 18 GHz)	ISO 11452-2:1995 ISO 11452-3:1995 ISO 11452-3:2001 ISO 11452-5:1995 ISO 11452-5:2002 BS3G100:Part 4:Section 2: 1973/1980 DEF STAN 59-41:Issue 3:1988 DEF STAN 59-41:Issue 5:1995 Supplement V EUROCAE-ED-14D:1997 MIL STD 461A:1968 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461D:1993 MIL STD 461E:1999 MIL STD 462:1967 MIL STD 462D:1993 RTCA/DO-160A:1980 RTCA/DO-160B:1984 RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 SAE J1113-21:1998 EC Directive 95/54/EC Annex 9 ES-XW7T-1A278-AB, Section RI 114, RI 140 Mazda MES PW67600 (1995) test RI01-2 Ford ES-FZAF-1316-AA (1992) test RI01-2 ES-XW7T-1A278-AB, Section RI 110 and RI 114 MVEE 595:1975 Boeing D6-16050-2, -3, -4, -5B, -5C Westland Agusta EA98Q010J:1986 Fiat 9.90110, Section 2.7.6



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As listed on Page 2	<p>2 EMC TESTING (cont'd)</p> <p>2.1 MILITARY AND AUTOMOTIVE (cont'd)</p> <p>2.1.5 Power Surges and Transients for damped sinusoids, 7 kHz - 100 MHz, maximum levels 1500 V/75 A</p>	<p>DEF STAN 59-41:Issue 3:1988 DEF STAN 59-41:Issue 5:1995 Supplements, K, L, M, N, S and T EUROCAE-ED-14D:1997 MIL STD 461A:1968 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461D:1993 MIL STD 461E:1999 MIL STD 462:1967 MIL STD 462D:1993 RTCA/DO-160A:1980 RTCA/DO-160B:1984 RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 Boeing D6-16050-2, -3, -4, -5B, -5C</p>
	<p>2.1.6 Automotive Transients, Noise and Voltage Tests</p>	<p>ISO 7637-1:1990 ISO 7637-2:1990 ISO 7637-3:1995 ES-XW7T-1A278-AB, Section CI 210, CI 220, CI 230, CI 240 CI 250, CI 260 & CI 270 Fiat 9.90110, Section 2.7.4, 2.7.5 SAE J1113-11:1995, excluding Pulse 5 SAE J1113-12:1994</p>
	<p>2.1.7 Exported Spikes and Transients</p>	<p>ISO 7637-1:1990 ISO 7637-2:1990 ISO 7637-3:1995 BOEING D6-16050-4:1991 BOEING D6-16050-5B:2004 BOEING D6-16050-5C DEF STAN 59-41:Issue 3:1988 DEF STAN 59-41:Issue 5:1993 Supplements C EUROCAE ED-14D:1997 MIL STD 461A:1968</p>



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As listed on Page 2	2 EMC TESTING (cont'd) 2.1 MILITARY AND AUTOMOTIVE (cont'd) 2.1.7 Exported Spikes and Transients (cont'd)	MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 462:1967 RTCA/DO-160A:1980 RTCA/DO-160B:1984 RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 SAE J1113/42 (1994) Westland Agusta EA98Q010J:1986
	2.1.8 Lightning Strike Damped Sinusoids 3200 V/128 A 0.1/6.4 μ s Pulse 2300 V/460 A 6.4/70 μ s Pulse 1600 V/320 A	DEF STAN 59-41:Issue 5:1995 Supplement Q, short waveforms levels A, B, C and D, intermediate levels A, B and C RTCA/DO-160A:1980 RTCA/DO-160B:1984 RTCA/DO-160C:1989 RTCA/DO-160D:1997 RTCA/DO-160E:2004 Waveforms 1, 2, 3 and 4
	2.1.9 Lightning Induced Effects Pin Injection Ground Injection Cable Induction Single Stroke Multiple Stroke Multiple Burst	RTCA/DO-160C:1989 section 22 RTCA/DO-160C:Change No 2:1992 Section 22 RTCA/DO-160D:1997 section 22 RTCA/DO-160D:Change No 3:2002 Section 22 RTCA/DO-160E:2004 section 22 EUROCAE ED-84:1997, Chapter 5 BOEING D6-16050-4:1991 Section 7.4 BOEING D6-16050-5B:2004 Section 7.4 BOEING D6-16050-5C Section 7.4 AIRBUS ABD0100.1.2 section 3.2.2 FAA AC20-136



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As listed on Page 2	2 EMC TESTING (cont'd)	
	2.1 MILITARY AND AUTOMOTIVE (cont'd)	
	2.1.10 Electromagnetic Pulse (Induced Transients) for damped sinusoids, 7 kHz - 100 MHz maximum levels 1500 V/75 A	DEF STAN 59-41:Issue 5:1995 Supplements L and N MIL STD 461A:1968 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461D:1993 MIL STD 461E:1999 MIL STD 462:1967 MIL STD 462D:1993 Westland Agusta EA98Q010J:1986
	2.1.11 Electrostatic Discharge ± 25 kV Air Discharge	DEF STAN 59-41:Issue 5:1995 Supplement R EUROCAE ED-14D:1997 RTCA/DO-160D:1997 RTCA/DO-160E:2004 ISO 10605:2001 ES-XW7T-1A278-AB, Section CI 280 Fiat 9.90110, Section 2.7.8
	2.1.12 Compass Safe Distance	RTCA/DO-160D:1997 RTCA/DO-160E:2004
2.1.13 AEMCLRP Testing		
2.1.13.1 Radiated Emissions 150 kHz to 2.5 GHz	CISPR 25:2002 GMW 3097 and 3100:2001	
2.1.13.2 Absorption Chamber 200 MHz to 10 GHz at 200 V/m	SAE J1113-21:1998 ISO 11452-2:1995 GMW 3097 and 3100:2001	
2.1.13.3 Bulk Current Injection 1 MHz to 200 MHz Substitution and Closed Loop Methods	ISO 11452-4:2001 GMW 3097 and 3100:2001	



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As listed on Page 2	<p>2 EMC TESTING (cont'd)</p> <p>2.1 MILITARY AND AUTOMOTIVE (cont'd)</p> <p>2.1.13.4 ESD Up to 25 kV</p> <p>This laboratory has been assessed against the AEMCLRP scheme requirements. In addition to the general requirements the FORD and GM OEM specific requirements were used.</p> <p>2.2 CIVIL</p> <p>2.2.1 Conducted Emissions 150 kHz to 30 MHz</p> <p>2.2.2 Electrostatic Discharge Immunity (ESD): Up to 15 kV Direct and Indirect Air and Contact Discharge Positive and Negative Polarity</p> <p>2.2.3 Radiated Electromagnetic Field Immunity: 80 MHz to 2 GHz</p> <p>2.2.4 Fast Transient/Burst Immunity: 0.25 kV to 4.0 kV Positive and Negative Polarity 5 ns rise time, 10 ns duration 15 ms burst duration</p> <p>2.2.5 Surge Immunity Waveforms: 0.2 kV to 4.4 kV 1.2/50 (8/20) µs Common mode Differential mode</p>	<p>ISO 10605:2001 GMW 3097 and 3100:2001</p> <p>EN 55022:1998 including Amendment A1:2000</p> <p>EN 61000-4-2:1995 including Amendment 1:1998 and 2:2001</p> <p>EN 61000-4-3:1996 including Amendment A1:1998 and A2:2001</p> <p>EN 61000-4-4:1995 including Amendment A1:2001 and A2:2001</p> <p>EN 61000-4-5:1995 including A1:2001</p>



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As listed on Page 2	<p>2 EMC TESTING (cont'd)</p> <p>2.2 CIVIL (cont'd)</p> <p>2.2.6 Conducted Radio Frequency Immunity: 150 kHz to 230 MHz RF voltage up to 10 V rms Injection via coupling networks, direct injection or bulk current injection</p> <p>2.2.7 Power-Frequency Magnetic Fields (Immunity)</p> <p>Frequency: 50 Hz Field strength: up to 10 A/m</p> <p>2.2.8 AC Power Ports Voltage Dips, Interruptions and Fluctuations (Immunity): Voltage Dips: up to 100% Voltage Reductions: up to 100% Voltage Fluctuations: up to 100%</p> <p>2.2.9 EMC Tests</p> <p>This section includes generic and product family standards that refer to basic standards included in Sections 2.2.1 to 2.2.8 of this Schedule.</p> <p>Note: International Standards, EN, ENV and IEC, listed in this Schedule, that have been adopted nationally as BS EN DD ENV and BS IEC and are technically identical, can be considered as being included in this Schedule.</p>	<p>EN 61000-4-6:1996 including Amendment A1:2001</p> <p>EN 61000-4-8:1993 including Amendment A1:2001</p> <p>EN 61000-4-11:1994 including Amendment A1:2001</p> <p>EN 55014-2:1997 including Amendment A1:2001</p>



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	<p>FACILITIES</p> <p>Screened Room A: 2.45 m x 3.65 m x 3.1 m high Door: 0.9 m x 2.1 m high</p> <p>Screened Room B: 3.65 m x 6.1 m c 3.1 m high Door: 1 m x 2.1 m high</p> <p>Screened Semi-Anechoic Room C: 6 m x 5.4 m x 2.8 m high Door: 2 m x 2.1 m high</p> <p>Screened Semi-Anechoic Room D: 8.4 m x 6 m x 6 m Door: 2 m x 2.5 m high</p> <p>Screened Anechoic Room E: 7.1 m x 4.5 m x 3.3 m Door: 1.8 m x 2.1 m high</p> <p>Power supplies: 50 Hz 240 V 50 A 400 Hz 50 A DC 24 V 10 A</p> <p>A 186 kVA variable speed drive with AC and DC load banks is connected to the screened room wall enabling generators, alternators and motors to be tested on load. Compressed Air and cooling water are also available.</p>	
<p>Aerospace Equipment Alternators Electrical/Electronic Components Electro-mechanical Devices Engine Control Units Ignition Systems Information Technology Equipment Instruments: Indicating and Recording Microelectronic Circuits and Components Military Equipment and Materials Motor Vehicle Components and Accessories Motor Vehicle Systems Transducers Weapon Systems</p>	<p>3 CLIMATIC TESTS</p> <p>3.1 Dry Heat Up to 180°C Min RH 20% Test chamber size: 2500 litre</p> <p>3.2 Humidity - Steady State Temperature: +10°C to +85°C Humidity: 20% to 98% RH Test chamber size: 2500 litre</p>	<p>BS EN 60068-2-2:1993 Tests Ba and Bb RTCA/DO - 160D:1997 RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 501.3 MIL-STD-810F:2000 Method 501.4</p> <p>BS 2011:2.1 Ca:1977 IEC 68-2-3:1969 IEC 60068-2-78:2001</p>



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As listed on Page 10	3 CLIMATIC TESTS (cont'd) 3.2 (cont'd) Humidity - Cyclic Temperature: +10°C to +85°C Humidity: 20% to 98% Variant 1 and 2 Test chamber size: 2500 litre Combined test - High Humidity/low temperature Temperature: -50°C to +85°C Humidity: 20% to 98% RH Test chamber size: 2500 litre	BS EN 60068-2-30:1999, Test Db IEC 60068-2-30:1980 BS EN 60068-2-30:2005 RTCA/DO - 160D:1997 RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 507.3 MIL-STD-810F:2000 Method 507.4 BS EN 60068-2-38:1999, Test Z/AD IEC 60068-2-38:1974
	3.3 Salt Mist - Test Chamber size: 1100 litre Salt Mist - Cyclic Max Temperature: +70°C Max Humidity: 100% RH Test Chamber size: 1100 litre	BS EN 60068-2-11:1999 BS 7479:1991 ISO 9227:1990 ISO 9227:2006 IEC 60068-2-11:1981 DIN 50021:1988 ASTM B117:2002 JIS Z2371:1994 EN 60068-2-52:1996, Test Kb RTCA/DO - 160D:1997 RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 509.3 MIL-STD-810F:2000 Method 509.4
	3.4 Ingress Protection IPX3 Spraying Water IPX4 Splashing Water IPX5 Water Jets IPX9K Water with High Pressure/Steam Jet Cleaning	BS EN 60529:1992 IEC 529:1989 DIN 40053:1972 JIS D0203:1994 DIN 40 050 Part 9 (IPX9K)



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As listed on Page 10	3 CLIMATIC TESTS (cont'd) 3.5 Low Temperature Min Temperature: -70°C Test Chamber size: 2500 litre	BS EN 60068-2-1:1993 IEC 68-2-1:1990 RTCA/DO - 160D:1997 RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 502.3 MIL-STD-810F:2000 Method 502.4
	3.6 Thermal Cycling Temperature Range: -70°C to 180°C Max rate: 5°C/min Test Chamber size: 2500 litre	BS 2011:2.1 N:1985, Test Nb IEC 68-2-14:1984 BS EN 60068-2-14:2000, Test Nb RTCA/DO - 160D:1997 Section 5.0 (Categories B and C) RTCA/DO - 160E:2004 Section 5.0 (Categories B and C)
	3.7 Thermal Shock Temperature Range: -70°C to +200°C in <30 secs	BS 2011:Part 2.1 Na:1985 IEC 68-2-14:1984 BS EN 60068-2-14:2000, Test Na RTCA/DO - 160E:2004 Section 5.0 (Categories S1 & S2) MIL-STD-810E:1989 Method 503.3 MIL-STD-810F:2000 Method 503.4
	3.8 Fluid Contamination Temperature Range: Ambient to +150°C (storage) Spray, dipped or brushed	BS EN 60068-2-74:2000 Part 2, Test Xc RTCA/DO - 160D:1997 RTCA/DO - 160E:2004 MIL-STD-810F:2000 Method 504
As listed on page 10	4 DYNAMIC TESTING 4.1 Bump Testing Max mass: 700 kg Max size: 1.0 x 1.0 x 0.8 m Peak thrust: 66 kN Max level: 100 g	BS EN 60068-2-29:1993 IEC 68-2-29:1987



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As listed on page 10	4 DYNAMIC TESTING (cont'd) 4.2 Mechanical Shock Max mass: 700 kg Max size: 1.0 x 1.0 x 0.8 m Peak thrust: 66 kN Max level: 180 g Table size: 750 x 750 mm	BS EN 60068-2-27:1993 IEC 68-2-27:1987 MIL STD 810D:1983 Method 516.3 Section 3-4, Test Procedure II RTCA/DO - 160D:1997, (EUROCAE ED-14D) Test Procedure I RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 516.4 MIL-STD-810F:2000 Method 516.5 Test Procedure I
	4.3 Vibration - Sinusoidal Frequency range: 3 Hz to 2.5 kHz Max mass: 700 kg Max size: 1.0 x 1.0 x 0.8 m Peak thrust: 66 kN Slip table size: 750 x 750 mm	BS 2011:2.1 Fc:1983 IEC 68-2-6:1982 EUROCAE ED-14C RTCA/DO - 160C:1989 (EUROCAE ED-14C) RTCA/DO - 160D:1997 (EUROCAE ED-14D) BS EN 60068-2-6:1996 IEC 68-2-6:1995 RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 514.4 MIL-STD-810F:2000 Method 514.5 Test Procedure I and III
	4.4 Vibration - Random Frequency range: 3 Hz to 2.5 kHz Max mass: 700 kg Max size: 1.0 x 1.0 x 0.8 m Peak thrust: 66 kN Slip table size: 750 x 750 mm	BS 2011:2.1 Fdb:1973 BS 2011:2.1 Fd:1984 RTCA/DO - 160C:1989 (EUROCAE ED-14C) RTCA/DO - 160D:1997 (EUROCAE ED-14D) IEC 68-2-36:1984 IEC 68-2-37:1986 IEC 68-2-64:1993 RTCA/DO - 160E:2004 MIL-STD-810E:1989 Method 514.4 MIL-STD-810F:2000 Method 514.5 Test Procedure I and III BS EN 60068-2-64:1995



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As listed on page 10	4 DYNAMIC TESTING (cont'd) 4.5 Vibration - Sine on Random Frequency range: 3 Hz to 2.5 kHz Max mass: 700 kg Max size: 1.0 x 1.0 x 0.8 m Peak thrust: 66 kN Slip table size: 750 x 750 mm	RTCA/DO - 160D:1997 (EUROCAE ED-14D) MIL-STD-810E:1989 Method 514.4 MIL-STD-810F:2000 Method 514.5 Test Procedures I and III
	4.6 Vibration - Sine on Random - Gunfire Frequency range: 3 Hz to 2.5 kHz Max mass: 700kg Max size: 1.0 x 1.0 x 0.8 m Peak thrust: 66 kN Slip table size: 750 x 750 mm	MIL-STD-810E:1989 Method 519.4 MIL-STD-810F:2000 Method 519.5 Test Procedure IV
	The tests in Sections 4.1 to 4.6 can be performed with temperature and humidity cycling. Temperature: -50°C to 180°C Humidity: 20% to 98% RH Chambers size: 1500 litre (max)	
	END	