Summary of Test Methods and Specifications

All tests below are UKAS accredited.
Detail and revision level available on request.

	IEC/BS EN 60068-2	MIL-STD 202	MIL-STD 810	MIL-STD 883	MIL-STD 750
Climatic Tests - single parameter					
High temp storage. Max 250°C	•	•	•		
Low temp storage. Min -80°C	•		•		
Temp change (thermal shock) Rapid air to air -70°C to 200°C Gradual air to air -70°C to 200°C Rapid liquid to liquid -74°C to 160°C	•	•	•	•	•
High humidity steady state 10°C to 85°C 10%rh to 98%rh	•	•			
High humidity cyclic 10°C to 85°C 10%rh to 98%rh	•	•	•	•	•
Low pressure 1000Pa (equiv. 31,200m)	•	•	•	•	•
Salt mist	•	•	•		•
Salt corrosion	•			•	•
Climatic Tests - Combined parameters					
High temp/low temp/low pressure -70°C to 160°C 1000Pa (31,200m)	•	•	•	•	•
Dynamic Tests					
Vibration - sinusoidal Frequency range 5 to 5,000Hz Peak thrust 20kN Max pk/pk disp +/- 50mm Temp -50°C to 150°C including cyclic	•	•	•	•	•
Vibration - random Frequency range 5 to 4,000Hz Peak thrust 20kN Max pk/pk disp +/- 50mm Temp -50°C to 150°C including cyclic	•	•	•	•	
Shock Max severity 30,000gn Max mass 22kg Max size 0.2m x 0.2m x 0.2m	•	•	•	•	•
Bump Max severity 40g Max mass 23kg Max size 0.3m x 0.3m x 0.3m	•				
Acceleration - steady state Max accel 40,000gn Max item mass 0.2kg Max item size 0.1m x 0.1m x 0.1m	•	•	•	•	•
Additional Test Services					
Resistance to solvents/contaminating fluids Solvent/fluid to be specified	•	•		•	•
Solderability (soldering heat) Soldering baths/irons as specified Steam ageing available	•	•		•	•
Robustness of terminations Tensile Bending Torsion Torque Solder pad adhesion	•	•		•	•
Insulation resistance		•		•	

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SPECTRUM CONTROL