



Ping200Sr/i

Environmental Qualification Matrix



ping200S



ping200Si



ping200Sr

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1 Environmental Qualification Forms

Nomenclature	Ping200SADS-B Mode S transponder		
Part No: UAV-1000706-001	TSO-C199 Class A Device		
Manufacturer	uAvionix Inc		
Address	380 Portage Ave, Palo Alto, CA 94306		
Conditions	DO-160G Section	Description of Conducted Tests	Status
Temperature and Altitude	4.0	Equipment tested to Category B2	Pass
Low temperature ground survival	4.5.1	-55°C	Pass
Low Temperature Short-Time Operating	4.5.1	-45°C	Pass
Low Temperature Operating	4.5.2	-45°C	Pass
High Temperature Operating	4.5.4	+70°C	Pass
High Temperature Short-Time Operating	4.5.3	+70°C	Pass
High Temperature Ground Survival	4.5.3	+85°C	Pass
Loss of Cooling	4.5.5	Cooling air not required (+70°C operating without cooling)	Pass
Altitude	4.6.1	35,000feet	Pass
Decompression	4.6.2	Equipment identified as Category B2 – no test	N/A
Overpressure	4.6.3	Equipment identified as Category B2 – no test	N/A
Temperature Variation	5.0	Equipment tested to Category B2	Pass
Humidity	6.0	Equipment tested to Category B2	Pass
Operation Shocks	7.2	Equipment tested to Category B	Pass
Crash Safety	7.3	Equipment tested to Category B type 5	Pass
Vibration	8.0	Aircraft zone 2: type 3, 4, 5 to Category S level M, type 1 (Helicopters) to Category U level G	Pass
Explosion	9.0	Equipment identified as Category X – no test	N/A
Waterproofness	10.0	Equipment identified as Category X – no test	N/A
Fluids Susceptibility	11.0	Equipment identified as Category X – no test	N/A
Sand and Dust	12.0	Equipment identified as Category X – no test	N/A
Fungus	13.0	Equipment identified as Category X – no test	N/A
Salt Spray	14.0	Equipment identified as Category X – no test	N/A
Magnetic Field	15.0	Equipment identified as Category Z	Pass
Power Input	16.0	Equipment identified as Category ZX	Pass
Voltage Spike	17.0	Equipment identified as Category B	Pass
AF Conducted Susceptibility	18.0	Equipment identified as Category B	Pass
Induced Signal Susceptibility	19.0	Equipment identified as Category AC	Pass
RF Susceptibility	20.0	Equipment identified as Category TT	Pass
RF Emissions	21.0	Equipment identified as Category B	Pass

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Lightening Induced Transient Susceptibility	22.0	Equipment identified as Category XXXX – no test	N/A
Lightening Direct Effects	23.0	Equipment identified as Category X – no test	N/A
Icing	24.0	Equipment identified as Category X – no test	N/A
Electrostatic Discharge	25.0	Equipment identified as Category X – no test	N/A
Fire, Flammability	26.0	Equipment identified as Category C	Pass