



Customer Release Product Design Validation Chart

Standard

DDV Series

DMM Series

DO 160E

Environmental Conditions and Test Procedures for Airborne Equipment

Testing: passed on AWML (8, 10) and VMC 10

8	10
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8	12	15
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IP67

Submersion Test: 1 meter / 30 minutes

X	X
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X	X	X
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Mil-Std 810F

DoD Test Method Standard for Environmental Engineering Considerations and Laboratory Tests

	DDV Series		DMM Series		
	8	10	8	12	15
500.4 Altitude; Process II; Operation		X			
500.4 Altitude; Process III; Rapid Decompression		X			
500.4 Altitude; Process IV; Explosive Decompression				X	
501.4 High Temperature; Process I; Storage				X	X
501.4 High Temperature; Process II; Operation		X		X	X
502.4 Low Temperature; Process I; Storage				X	X
502.4 Low Temperature; Process II; Operation		X		X	X
503.4 Temperature Shock		X		X	X
505.4 Solar Radiation		X			
506.4 Rain					
507.4 Humidity		X		X	
508.5 Fungus					
509.4 Salt Fog		X		X	
510.4 Sand and Dust; Procedure I; Blowing Dust				X	
510.4 Sand and Dust; Procedure II; Blowing Sand		X			
511.4 Explosive Atmosphere; Procedure I; Exp. Atmosphere				X	
512.4 Immersion	X	X	X	X	X
513.5 Acceleration; Procedure III; Crash Safety				X	
514.5 Vibration; Process I; Functional		X		X	X
516.5 Shock; Process I; Functional		X		X	
516.5 Shock; Process I; Functional (-32C)					X
516.5 Shock; Process I; Functional (15C)					X
516.5 Shock; Process I; Functional (65C)					X
516.5 Shock; Process IV; Transit Drop					X
516.5 Shock; Process VI; Bench Handling					X
520.2 Temp, Humidity, Vibe & Alt; Procedure III; Qualification				X	
523.2 Vibro-Acoustic/Temperature; 35 - 85C; Operation					X

Mil-Std-1275

Military Vehicle Standard

Power Supply - note: same model installed in all units

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X		
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Mil-Std-1472

5.13.4.6 Thermal Contact Hazard

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	X	
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Mil-Std-3009

Lighting, Aircraft, Night Vision Imaging System (NVIS); tested w/o touch; w/ NVIS filter

NVIS filter passes

Product and Mil-STD 461E Comparison Chart

Standard Mil-Std 461E

DDV Series

10

DMM Series

8	10	12	15
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Requirements for the Control of Electromagnetic Interference

Programs

AWM08; Flir; (No Program Name)

DMM8400; Flir; (Data Missing)

DMM1200R; Boeing; B-52

DMM1500R; Lockheed Martin; THAAD

CE102; Conducted Emissions; Power Leads; 10 kHz to 10 MHz	X	X	X	
CS101; Conducted Susceptibility; Power Leads; 30 Hz to 150 kHz	X	X	X	
CS114; Conducted Susceptibility; Bulk Cable Injection; 10 kHz to 200 MHz	X	X	X	
CS115; Conducted Susceptibility; Bulk Cable Injection; Impulse Excitation		X	X	
CS116; Conducted Susceptibility; Bulk Cable Injection; Damped Sinusoidal Transients	X	X	X	
RE102; Radiated Emissions; Electric Field; 2 MHz to 18 GHz		X	X	X
RS101; Radiated Susceptibility; Magnetic Field; 30 Hz to 100 kHz	X			
RS103; Radiated Susceptibility; Electrical Field; 2 MHz to 18 GHz	X	X	X	



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