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Testing Summary
7160-0318 Rev AA CF-31 Docking Station

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: August 2013	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-1. Test duration is two 1- hour cycles along three mutually orthogonal axes – not simultaneously (6 hours total). • Unit is unlocked • Panasonic provided operating conditions
Vibration – Operational **RF Connection** Test date: August 2013	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). • Unit is unlocked • Panasonic provided operating conditions • Test is performed simultaneously with operational test. • Test is monitored to record any breaks in RF connectivity during vibration.
Vibration – Non-Operational (Minimum Integrity) Test date: August 2013	MIL-STD-810G, Method 514.6, Category 24, per Figure 514.6E-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). • Unit is unlocked • Panasonic provided operating conditions
Vibration – Non-Operational Sinusoidal Test date: August 2013	10-200Hz Sine Sweep • Unit is unlocked • Panasonic provided operating conditions
Functional Shock - Non-Operational Test date: August 2013	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses • 20G, 11ms half sine • Unit is unlocked
Mechanical Shock Safety - Non-Operational Test date: August 2013	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses • 40G, 11ms half sine • Unit is unlocked
Cycle Testing – Non-Operational Test date: August 2013	10,000 cycles of the docking connector, latching and locking mechanisms

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Summary of Tests Performed at Independent Facility

Test Description	Test Parameters
Shock – Crash Hazard Test date: August 2013	SAE J1455, Section 4.11.3.5, per Figure 13 • Unit is unlocked
Thermal Shock Test date: August 2013	MIL-STD 810G, Method 503.5, Procedure I-C • Three cycles from 85°C to -40°C to 85°C
Low Temperature: Operational Test date: August, 2013	MIL-STD 810G, Method 502.5, Procedure II • -10°C Operating, 2-hour duration
Low Temperature: Storage Test date: August, 2013	MIL-STD 810G, Method 502.5, Procedure I • -51°C Non-Operating, 4-hour duration
High Temperature: Operational Test date: August, 2013	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced Conditions • Three 24-hour cycles, temperature varied from 30°C to 60°C to 30°C
High Temperature: Storage Test date: August, 2013	MIL-STD 810G, Method 502.5, Procedure I, Table 502.5-III, Induced Conditions • Seven 24-hour cycles, temperature varied from 33°C to 71°C to 33°C
EMC Testing Test date: August 2013	EN 50498:2010 • Tests performed at independent facility
EMC Testing Test date: August 2013	EN 55022:2010/AC:2010 • CISPR 22 – Class A • FCC Part 15, Subpart B – Class A • Tests performed at independent facility

Other Certifications

Description
EN 50581:2012 RoHS2 Directive 2011/65/EU

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