

Test Capabilities

EMI / EMC*



- EMI Standards
 - DO-160 Section 21 Radiated Emissions (to 18 GHz)
 - MIL-STD-461 Radiated Emissions (10 KHz to 18 GHz)
 - CFR 47 part 15 (FCC), EN55011, EN 55022
 - Radiated Emissions (30 MHz to 18 GHz)
 - Conducted Emissions (150 khz to 30 MHz)
- EMI Chamber (10' x 16' x 24')
 - Spectrum Analyzer: 100 Hz - 26 GHz Hewlett Packard HP 4705A
 - Horn Antenna: 1 to 18 Ghz
 - Active E - Field Rod Antenna: 10 KHz to 60 MHz
 - Biconilog Antenna: 30 to 1,000 MHZ
 - LISN: 50 μ H, 25 Amp
 - Sunol Sciences Turntable and controller
- ESD Immunity (EN6000-4-2)
 - Haefely (PESD 3010) up to 30 KV using 150 pF and 330 pF / 150 Ω and 2K Ω

- Electrical Fast Transient (EFT) Immunity
 - EMTes EFT 500 and Amplifier Research capacitive coupling clamp
- Automotive Transient Immunity
 - Schaffner (NSG 5500)
 - SAE 1113-11 (Pulses 1, 2A, 2B, 3A, 3B and 5A)
 - SAE 1455 Load Dump



*Note: Calibrated, not certified

IEC 60601-1

- Ground Bond
 - Quad Tech (Sentry 50Plus)
- Hi Pot
 - Sentry (500VA)

Backlight and indicator color measurement

- Photo Research Spectroradiometer (PR-705)



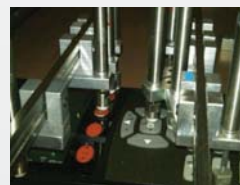
Environmental Testing

- Temperature and Humidity cycling (-70°C to 170°C)
 - Thermotron (SE-1000)
 - Despatch (16535)
- HALT/HASS:
 - Thermotron AST-35 (-100°C to 200°C, 50 g_{RMS} 6-DoF, RS vibration)
- Rain and Blowing Rain (MIL-STD-810)
- Ingress Protection (IEC 529; IPX3/X4 chamber, IPX5/X6 spray, IPX7/X8 tank)



Switch testing

- Contact Closure Cycling: (ASTM F1578)
 - 5 custom configurable fixtures, 50g to 10Kg actuation force, 3Hz typical
- Force vs. Displacement and Contact measurement: (ASTM F1570, F1597)
 - Tricor Systems model 921A
- Contact Resistance: (ASTM F1680)
- Contact Bounce: (ASTM F1661)
- Insulation Resistance: (ASTM F1689)
- Abrasion testing: (ASTM F2357)
 - RCA tester (Norman Tool)



600 W. Wilbur Avenue
Coeur d'Alene, ID 83815
800-444-5923 x1383
eit.sales@esterline.com
www.esterline.com/interfacetechnologies

Esterline
Interface Technologies