

全面向測試範圍與測試項目

● 電氣測試 Electrical Test



- 電容試驗 Capacitance Test
- 壓降試驗 Voltage Drop Test
- 爬升時間試驗 Rise Time Test
- 阻抗試驗 Resistance Test
- 絕緣阻抗試驗 Insulation Resistance Test
- 低階接觸阻抗試驗 Low Level Contact Resistance Test
- 額定負載試驗 Rated Load Test
- 耐電壓試驗 Dielectric Withstanding Voltage Test
- 額定電流試驗 Contact Current Rating Test
- 瞬斷試驗 Discontinuities Test
- 線材特性阻抗試驗 Cable Impedance Test
- 連接器特性阻抗試驗 Connector Impedance Test
- 共模阻抗試驗 Common Mode Impedance Test
- 阻抗匹配試驗 Cable Pair Matching Impedance Test
- 信號眼圖試驗 Eye Diagram Test
- 傳播延遲試驗 Propagation Delay
- 差分對內傳遞時間差試驗 Intra-pair skew
- 差分對間傳遞時間差試驗 Inter-pair skew
- 衰減試驗 Attenuation
- 傳遞衰減試驗 Insertion Loss Test
- 傳遞反射衰減試驗 Return Loss
- 干擾試驗 Inter-Symbol Interference Test
- 近端串音干擾試驗 Near-End Crosstalk
- 遠端串音干擾試驗 Far-End Crosstalk
- 差分共模轉換試驗 Differential to Common Mode Conversion Test
- 差分/共模回波訊號量測試 Differential / Common Mode Return Loss Test

● 機械測試 Mechanical Test



接觸特性 Contact Characterization

- 正向力試驗 Normal Force Test
- 插入/拔出力試驗 Insertion Force / Extraction Force Test
- 保持力試驗 Retention Force Test
- 線纜拉拔力試驗 Cable Pull-out Test
- 線纜折彎試驗 Cable Flex Test
- 耐久性試驗 Durability Test

電鍍分析 Plating Analysis

- 沾錫性試驗 Solder-ability Test
- 外觀目視及尺寸檢驗 Visual & Dimensional Inspection
- 切割及重要尺寸檢驗 Section & Critical Dimension Test

震動及衝擊 Vibration and Shock

四軸向折彎試驗 4-Axis Test (USB-IF Specification)



- 衝擊試驗 Shock Test
- 震動試驗 Vibration Test

● 環境測試 Environmental Test



惡劣環境試驗 Harsh Environment Testing

- 鹽水噴霧試驗 Salt Spray Test
- 混合氣體腐蝕試驗 Mixed Flowing Gas Test

溼度試驗 Humidity Testing

- 溼度試驗 Humidity Test
- 高溫高濕(穩態)試驗 Damp Heat Test

熱環境試驗 Thermal Environment Testing

- 熱衝擊試驗 Thermal Shock Test
- 低溫(耐寒性)試驗 Cold Test
- 乾熱(耐熱性)試驗 Dry Heat Test
- 溫度壽命試驗 Temperature Life Test
- 熱擾動試驗 Temperature Disturbance Test
- 溫度循環試驗 Temperature Cycling

加速壽命試驗 Accelerated Life Testing

- 蒸氣/熱老化試驗 Steam/Thermal Ageing Test