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| ENGINEERING DEPT. | PRODUCT SPECIFICATION For CS21 Series Connector System | SPEC.NO.: SPCS026A |
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1. SCOPE:

This specification contains the test requirement of subject PLCC chip carrier socket when tested under the condition and below standards base on CviLux test procedure

2. APPLICABLE STANDARDS:

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| MIL - STD - 202 | Methods for test of connectors for electronic equipment |
| MIL - STD - 1344 | Test methods for electrical connectors |
| J-STD-020 | Resistance to soldering Temperature for through hole Mounted Devices |
| SS-00254 | Test methods for electronic components ,LEAD-FREE soldering Part design standards |

3. APPLICABLE SERIES NO.: CS21 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C. BOARD

6.1 Thickness: 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : Alex APPROVED : David VERIFIED : Hank .

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7. ELECTRICAL PERFORMANCE:

| | ITEM | TEST CONDITION | |
|-----|---------------------------|---|---------------------|
| 7.1 | Rated current and voltage | | 1A 250V AC (r.m.s.) |
| 7.2 | Contact resistance | Dry circuit of DC 20 mV max. , 100 mA max. | Less than 30 mΩ |
| 7.3 | Dielectric strength | When applied AC 500 V 1minute between adjacent terminal | No change |
| 7.4 | Insulation resistance | When applied DC 500 V between adjacent terminal or ground | More than 1000 MΩ |

8. MECHANICAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|---------------------|---|---|
| 8.1 | Pin retention force | Push pin from insulator base at speed 25±3 mm per minute | More than 400 gram |
| 8.2 | Durability | Connector shall be subject to 25 cycles of insertion and withdrawal | Contact resistance: Less than twice of initial |

9. ENVIRONMENTAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|------------------------------|--|--|
| 9.1 | Vibration | 1.5 mm 10-55-10 HZ/minute each 2 hours for X,Y and Z directions | Appearance: No damage Discontinuity: 1 micro second max. |
| 9.2 | Solder ability | Tin-Lead Process Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5°C Lead-Free Process Soldering time: 3 ± 0.5 second Soldering pot: 245 ± 5° | Minimum: 90% of immersed area |
| 9.3 | Resistance to soldering heat | Tin-Lead Process Soldering time: 5 ± 0.5 second Soldering pot: 260 ± 5°C Lead-Free Process Soldering time: 10 ± 0.5 second Soldering pot: 260 ± 5°C | No damage |
| 9.4 | Heat aging | 105 ± 2°C, 96 hours | No damage |



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| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|---------------------|---|--|
| 9.5 | Humidity | 40 ± 2°C, 90-95% RH, 96 hours measurement must be taken within 30 min. after tested | Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 7-3 |
| 9.6 | Temperature cycling | One cycle consists of : (1)-55 ⁺⁰ ₋₃ °C , 30 min. (2)Room temp. 10-15 min. (3) 85 ⁺³ ₋₀ °C , 30 min. (4)Room temp. 10-15 min. | Appearance: No damage Contact resistance: Less than twice of initial |
| 9.7 | Salt spray | Temperature: 35±3°C Solution: 5±1% Spray time: 48±4 hours Measurement must be taken after water rinse | Appearance: No damage Contact resistance: Less than twice of initial |

10. AMBIENT TEMPERATURE RANGE: -40 to + 105°C