

<b>ENGINEERING</b> <b>DEPT.</b>	<b>PRODUCT SPECIFICATION</b> <b>For CPLK Series Connector</b>	<b>SPEC.NO.: SPCP0672</b> <b>PAGE: 1 / 5</b>
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1. SCOPE:

This specification contains the test requirement

2. APPLICABLE STANDARDS:

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.: CPLK Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 P.C. Board Layout: See attached drawings

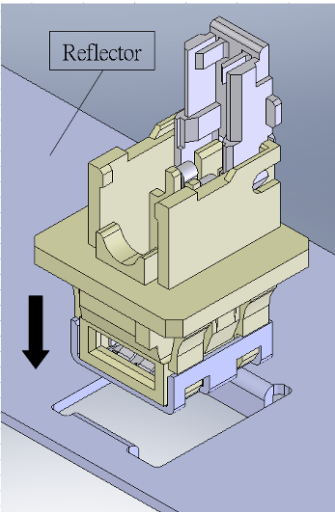
REVIEWED : \_\_\_\_\_ APPROVED : \_\_\_\_\_ VERIFIED : \_\_\_\_\_.

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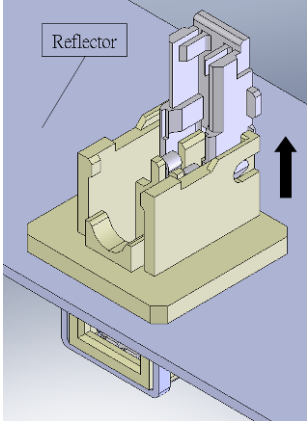
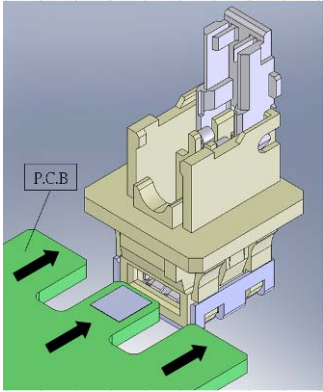
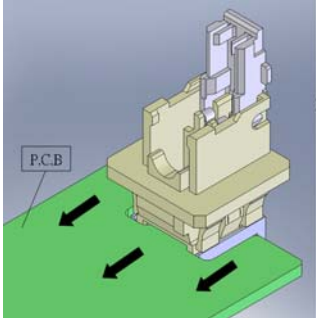
**7. ELECTRICAL PERFORMANCE:**

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		1.0A max. 3000V AC/DC max.
7.2	Contact resistance	Dry circuit of DC 20mV max. , 10mA max.	Less than 10 mΩ
7.3	Dielectric strength	Applied AC 3000V 1minute	No change
7.4	Insulation resistance	Applied DC 500 V	More than 1000 MΩ

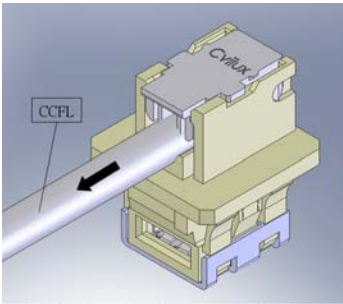
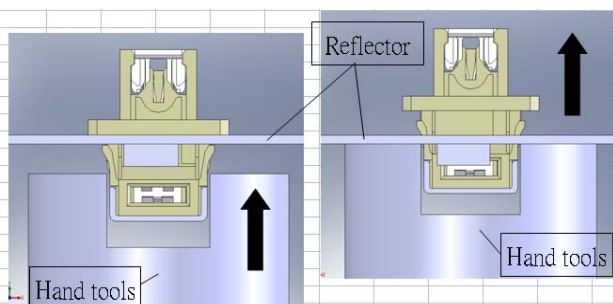
**8. MECHANICAL PERFORMANCE:**

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Pin retention force in Board mount Header	Push Pin for insulator base at speed 25± 3 mm per minute	More than 1.0 Kgf
8.2	Open Cover force	Speed 25± 3 mm per minute	0.3 Kgf ~ 3.0 Kgf
8.3	Close Cover force	Speed 25± 3 mm per minute	Less than 2.0 Kgf
8.4	Durability	CCFL shall be subjected to 30 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial
8.5	Socket Mating force (Reflector)	Socket insertions Reflector at speed 25± 3 mm per minute 	Less than 2.0 Kgf

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8.6	Socket Unmating force (Reflector)	Socket withdrawal Reflector at speed $25 \pm 3$ mm per minute  	More than 3.0 Kgf
8.7	Socket Mating force (P.C.B)	Socket insertions P.C.B at speed $25 \pm 3$ mm per minute  	Less than 2.0 Kgf
8.8	Socket Unmating force (P.C.B)	Socket withdrawal P.C.B at speed $25 \pm 3$ mm per minute  	More than 0.3 Kgf

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8.9	CCFL retention force	Speed $25 \pm 3$ mm per minute 	More than 0.5 Kgf
8. 10	Socket Unmating times	Speed $25 \pm 3$ mm per minute (Use Hand tools) 	Less than 5 times

#### 9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Temperature rise	Then carried the rated current	30°C max.
9.2	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.
9.3	Heat aging	$85 \pm 2^\circ\text{C}$ , 250 hours	No damage
9.4	Humidity	$40 \pm 2^\circ\text{C}$ , 90-95% RH, 240 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 Insulation resistance: More than 500 MΩ

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9.5	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. Total cycles : 5 cycles	Appearance: No damage Contact resistance: Less than twice of initial
9.6	Salt spray	Temperature: $35 \pm 3$ °C Solution: $5 \pm 1$ % Spray time: $48 \pm 4$ hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

10. AMBIENT TEMPERATURE RANGE: -25 to + 85°C