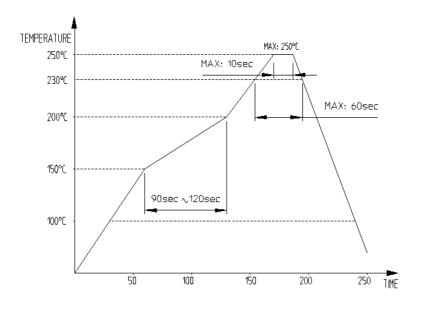
| DEV. | COUNT DECC | DIDTION OF BEY | 1010110 | DV. | OL IIVE | DATE | רבי י | COLINE | D | CODIDTION OF DELT | ICIONO I | DV | CLIVE | Г, | _T |
|--|---|----------------|--|--|----------------|--|-------------------------------|---|-------------------------|--|----------|-------------------|-------|----|--------------|
| REV | COUNT DESCI | RIPTION OF REV | ISIONS | BY LSH | CHKD | DATE 18.03.30 | REV | COUNT | DES | SCRIPTION OF REVI | SIONS | BY | CHKD | DA | \IE |
| - Revised | | | | LSH | LHJ | 18.04.09 | | | | | | | | | |
| | l l | | | 1 | | | | | 5 | | | | | | |
| APPLICABLE STANDARD USB Type-C C | | | | | -C Cab | able and Connector Specification Release 1.3 | | | | | | | | | |
| RATING CURRENT VOLTAGE | | | | DC 1.50A max. for Vbus & GND (i.e. A1, A4, A9, A12, B1, B4, B5, B9, B12) DC 0.25A for the other pins | | | | | | | | | | | |
| | | | 20 | 20V AC | | | | | | | | | | | |
| OPERATING CONDITION | | | | -40° ~ +85° (INCLUDING TEMP. RISE), 95 % RH max. (NON-CONDENSING) | | | | | | | | | | | |
| STORAGE CONDITION -10° ~ +60° (WITH PACKING), 15 % ~ 70 % RH | | | | | | | | | | | | | | | |
| Para. | Para. Test Description Test P | | | | | rocedure | | | Test Requirement | | | | QT | ΑТ | |
| 1 Examination of product EIA 364-Visual ins | | | | 364-18 al inspection | | | | | 1 | No physical damage. | | | | 0 | 0 |
| Elect | rical Require | ments | ı | | | | | | | | | | | | |
| 2 Low Level Contact at Resistance 4- | | | | EIA 364-23 Measure at 20 mV max open circuit at 100 mA (DC OR 1000 Hz). 4-wire measurement is required and the resistance of PCB termination shall be deducted from the reading. | | | | | | Initial: 40mΩ max for each contact After test: 50mΩ max for each contact | | | | 0 | - |
| 3 | Dielectric Withstanding Voltage EIA 364-20 Measure per Method B with unmated condition. 100V AC RMS for 1 minute at sea level. | | | | | 1 | No disruptive discharge. | | | | | - 1 | | | |
| 4 Insulation Resistance EIA 364-21 500V DC with unmated a | | | | | and ma | ted con | dition. | | 100MΩ min. | | | | | ı | |
| Mechanical Requirements | | | | | | | | | | | | | | | |
| 5 | EIA 364-13 Measure at 12.5 mm/minute min. | | | | | I | nitial & after test: 5N ~ 20N | | | | 0 | 1 | | | |
| 6 | Extraction force EIA 364-13 Measure at 12.5 mm/m | | | | | | | itial: 8N ~ 20N fter test: 6N ~ 20N (with virgin plug) | | | | 0 | ı | | |
| 7 | Dura | ability | EIA 364-09 Mated 10,000 times Mechanically operated: 500 cycles/hr Mating stroke: 2.75 mm Insertion, extraction force shall be measured at a maximum speed of 12.5 mm/min 1 No physical dam 2 Insertion force - Initial & after to a struction force - Initial: 8N ~ 2 - After test: 6N (with virgin plus | | | | | | est : 5N 0N ~ 20N | ~ 20N | | 0 | 1 | | |
| 8 | Random | Vibration | Test C Mated betwee 15 min | est Condition VII, Test Letter D fated specimens to 3.10 G's RMS etween 20 to 500 Hz 5 minutes in each of 3 mutually erpendicular planes. | | | | | | No physical damage. No discontinuity of 1us of longer duration when mated connector during test. | | | | 0 | ı |
| REMARKS | | | DR | 4FT | DES | SIGN | CHECK | APPR | OVAL | RELE | EAS | E | | | |
| Unless otherwise specified refer to the specification for USB Type-C, EIA364 | | | | | PARK 1.14 | S.Y.F 17.1 | | | | | | IG 6. 15 PT |) | | |
| NOTE) QT : QUALIFICATION TEST, AT : ASSURANCE TEST, O : Applicable Test | | | | | | | | | | | | | | | |
| DWG NO CL NO | | | | | PART NO CYOOM- | | | 1_16 | SD. | | | | | | |
| ELC4-632317 CL (| | | | 6240-0008-8 | | | CX90M-16P | | | | | | | | |
| HS HIROSE KOREA.CO.,LTD | | | | PRODUCT SPECIFICATION 1 | | | | | | 1 | 3 | | | | |

| Para. Test Description | | Test Procedure | Test Requirement | QT | ΑТ | | | | |
|----------------------------|------------------------------------|---|--|----|----|--|--|--|--|
| Environmental Requirements | | | | | | | | | |
| 9 | Temperature Life | EIA 364-17, Method A 105 °C without applied voltage for 120 hours. | No physical damage. | 0 | _ | | | | |
| 10 | Cyclic Temperature and Humidity | EIA 364-31 25±3 °C at 80±3 % RH for 1 hour. 65±3 °C at 50±3 % RH for 1 hour. Thermal ramp: 0.5 hour Number of cycles: 24 cycles | No physical damage. | 0 | ı | | | | |
| 11 | Thermal Shock | EIA 364-32, Test Condition I 10 cycles -55 °C and +85 °C | No physical damage. | 0 | _ | | | | |
| 12 | Solderability | EIA 364-52 Dwell in 245±5 ℃ of the solder bath for 5 sec. | Solder coverage shall be 95% min. of the immersed surfaces. | 0 | - | | | | |
| 13 | Salt Spray | EIA 364-26 5 % of NaCl in 35 °C for 48 hours. | No corrosions that affect to the connector operation. | | - | | | | |
| 14 | Reflow test | Reflow profile [Fig.1] Peak 250 °C max for 10 sec 2 times. | Co-planarity Before & after Reflow 0.1 max. No deformation of mold No shape of blister and popcorn | 0 | | | | | |

REMARKS



[Fig.1] REFLOW TEMPERATURE

| NOTE) QT: QUALIFICATION TEST, AT: ASSURANCE TEST, O: Applicable Test | | | | | | | | | |
|--|----------------|-----------|--|--|--|--|--|--|--|
| DWG NO | CL NO | PART NO | | | | | | | |
| ELC4-632317 | CL 6240-0008-8 | CX90M-16P | | | | | | | |

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PRODUCT SPECIFICATION

| Qualification Test Sequence Table | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|------------|-------|------|------|------|---|------|---|--|--|
| | | Test Group | | | | | | | | | |
| Para. | Test Description | Α | В | С | D | E | F | G | Н | | |
| 1 | Examination of product | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2 | Low Level Contact Resistance | 2, 4 | 2, 10 | 2, 4 | 2, 4 | 2, 4 | | 2, 4 | | | |
| 3 | 3 Dielectric Withstanding Voltage | | 3, 11 | | | | | | | | |
| 4 | 4 Insulation Resistance | | 4, 12 | | | | | | | | |
| 5 | 5 Insertion force | | 5, 8 | | | | | | | | |
| 6 | Extraction force | | 6, 9 | | | | | | | | |
| 7 | Durability | | 7 | | | | | | | | |
| 8 | Random Vibration | 3 | | | | | | | | | |
| 9 | Temperature Life | | | 3 | | | | | | | |
| 10 | Cyclic Temperature and Humidity | | | | 3 | | | | | | |
| 11 | Thermal Shock | | | | | 3 | | | | | |
| 12 | Solderability | | | | | | 2 | | | | |
| 13 | Salt Spray | | | | | | | 3 | | | |
| 14 | Reflow Test | | | | | | | | 2 | | |

REMARKS

1) Numbers in the table above indicate the sequence corresponding to each test group.

NOTE) QT : QUALIFICATION TEST, AT : ASSURANCE TEST, O : Applicable Test CL NO PART NO ELC4-632317 CL 6240-0008-8 CX90M-16P 3

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PRODUCT SPECIFICATION