| APPLICA | BLE STA | NDARD | USB2.0 SPECIFICATION | AND N | IICRO-US | B CABL | E AND | CONN | IECTORS | SPECIFICA | ATION. | | |
|-----------------------------------|--------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------|----------------|-------------------|--------------------------------------------------|-----|---------|
| | OPERATING TEMPERATURE RANGE | | | | <u> </u> | | −30°C TO +85°C | | | | | | |
| | VOLTAGE | | AC 30 V | | PERATING ANGE | HUN | /IIDITY | | — % TO — | | | % | |
| RATING | CURRENT | | ① 1 A/pin | | PPLICABLE | CABLE | + | | ,,, | <u> </u> | | | |
| | 1 SIGNA | | ② 1.8 A/pin (PIN No.1,5) | | | | | | | _ | | | |
| | 2 POWE | R APPLY | 0.5 A/pin(PIN No.2 ~ 4 | 4) | | | | | | | | | |
| | | | SPEC | IFIC | ATIO | NS | | | | | | | |
| 17 | ГЕМ | | TEST METHOD | | | | | RFQU | IREMENTS | S | Q ⁻ | Т | ΑT |
| | RUCTION | | TEGT METHOD | | | | | - LLQO | | <u> </u> | ~ | | <u></u> |
| GENERAL EX | | | Y AND BY MEASURING INSTR | UMENT. | | ACCOR | DING TO | D DRAV | /ING. | | X | | Χ |
| MARKING | | CONFIRM | MED VISUALLY. | | | | | | | | X | | Χ |
| ELECTR | IC CHAR | ACTERI | STICS | | | ı | | | | | | | |
| CONTACT F | RESISTANCE | 100 mA | (DC OR 1000 Hz). | | | 30 mΩ | MAX. | | | | X | | Χ |
| INSULATION | | 500 V D | 500 V DC. | | | | 100 MΩ MIN. | | | | | | Χ |
| RESISTANCE VOLTAGE PROOF | | 100 V A | 100 V AC FOR 1 min. | | | | ASHOV | FR OF | R BREAKD | OWN | X | | X |
| | | | RE ADJACENT TWO CONT | ACTS A | AT | | | LIX OI | CONLAND | OWIN. | | - | |
| CAPASITAN | ICE | | 1000±10Hz AC VOLTAGE. | | | | AX | | | | X | | _ |
| MECHAN | IICAL CH | | | | | | | | | | | • | |
| INSERTION | | | MUM RATE OF 12.5mm/min | | ND | | TION F | | | MAX. | Х | | _ |
| WITHDRAW | AL FORCES | MEASU | RED BY APPLICABLE CON | NECTO | DR. | | NTACT | | | MIN. 10 INCREA | | | |
| | | 10000 T | IMES INSERTIONS AND EX | (TRAC | TIONS. | _ | | | | OM INITIAI | | | |
| MECHANIC | ΔΙ | | | | | | LUE. | | | | | | |
| OPERATIO | | | SPEED | 00 000 | | | ERTIO | | | 5 N MAX. | X | | _ |
| | | | - MECHANICALLY OPERATED : 500 CYCLES / h - MANUALLY OPERATED : 200 CYCLES / h | | | | WITHDRAWAL FORCE 8 N MIN. ③ NO DAMAGE, CRACK AND | | | | | | |
| | | 1717 11 40 | 7.227 01 210 1125 . 200 01 | OLLO | , | | | | PARTS. | | | | |
| | | | ENCY 10 TO 55 Hz, | | | | | | | | | | |
| VIBRATION | | | SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 AXIAL DIRECTIONS, TOTAL 6 h. | | | ① NO ELECTRICAL DISCONTINUITY OF | | | | _ X | | _ | |
| | | | FREQUENCY 50 TO 2000 Hz, AT 15 min, | | | | 1 μs. ② NO DAMAGE, CRACK AND | | | | | _ | |
| RANDOM VIBRATION | | FOR 3 A | FOR 3 AXIAL DIRECTIONS. | | | | | | | | X | | _ |
| CHOCK | | | DIRECTIONS OF PULSE | | S | LO | OSENE | SS, O | F PARTS. | | | | |
| SHOCK | | | TIMES FOR 6 DIRECTION 18 TIMES. | JNS, | | | | | | | X | ٠ | _ |
| ENVIRO | NMENTA | | ACTERISTICS | | | l | | | | | | | |
| | | TEMP | -55 → 15 TO 35 → 85 − | → 15 TC | O 35 °C | ① CO | NTACT | RESIS | STANCE : | 70 mΩ MA> | ζ. | | |
| THERMAL S | SHOCK | TIME | TIME $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min}$ UNDER 10 CYCLES. (MATING APPLICABLE CONNECTOR) | | | INSULATION RESISTANCE :10 MΩ MIN. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | | IN. X | | _ | |
| | | | | | | | | | | | | | |
| HUMIDITY I | .IFE | , | TEMPERATURE -10~65 °C, HUMIDITY 90 TO | | | | NO DAMAGE, CRACK AND LOOSENESS, | | | | , X | + | _ |
| | | 98 %, UI | , UNDER 7 CYCLES (168 h) | | | OF PARTS. | | | | | | | |
| | | (MATING | G APPLICABLE CONNECTO | OR) | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| COUN | IT I | DESCRIPTI | ON OF REVISIONS | | DESIG | SNED | | | CHEC | KED | c | ATI | E |
| Δ | | | | | | | | | | | \dashv | | |
| REMARK | I | | | 1 | | | APPRO | OVED | NM. N | ISHIMATSU | 15. | 10. | 27 |
| HIROSE | will not gua | arantee t | antee the performance on these specificat | | | | | | CHIKAWA | | 10. | | |
| | | will be | I be mated with the others which | | | | | | S. ITO | | 15. 10. | | |
| HIROSE's. | | | | | | | | | | | | | |
| Unless otherwise specifie | | | d, refer to USB2.0, EIA364 or IEC 6051 | | | 2. DRAWN | | | AK. AKIYAMA | | 15. | 10. | 27 |
| Note QT:Qualification Test AT:Ass | | | | | | RAWING NO. | | | ELC-126723-30- | | | 00 | |
| נחכ | | SPECIE | | | | T NO. ZX80-B-5P (30) | | | | | | | |
| H 5 | | | | | | | | | | | 1 | /2 | |
| | | NUSEE | LECTRIC CO., LTD. | | CODE | CODE NO. | | CL242-0051-0-3 | | | | ⊥' | 1 |

| SPECIFICATIONS | | | | | | | | | |
|------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------|----|----|--|--|--|--|--|
| ITEM | TEST METHOD | REQUIREMENTS | QT | АТ | | | | | |
| IDRA HEVI | | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | Χ | _ | | | | | |
| I(:() I) | · · · · · · · · · · · · · · · · · · · | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | Χ | _ | | | | | |
| TO DEPOSIONI SALLIMIST | EXPOSED IN 5 % SALT WATER, 35 °C FOR 48h. (LEFT UNDER UNMATED CONDITION.) | NO HEAVY CORROSION. | Χ | _ | | | | | |
| ISOLDERABILITY | SOLDERING POINT IMMERSED IN SOLDER BATH OF 255±5 °C, 5sec.(USING TYPE R FLUX) | SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED. | Χ | _ | | | | | |
| | A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES | NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS. | Χ | _ | | | | | |

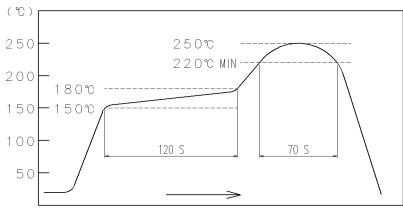


FIG – 1 RESISTANCE TO SOLDERING HEAT (TEMPERATURE AT TOP SURFACE OF CONNECTOR)

■ RECOMMENDED PROFILE REFERS TO FIG – 2. (TEMPERATURE AT SMT LEADS)

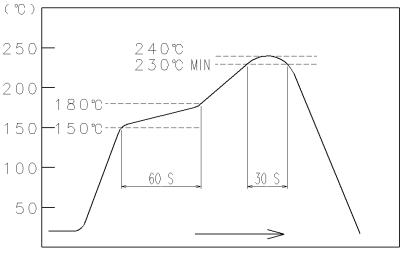


FIG – 2 RECOMMENDED REFLOW PROFILE TEMPERATURE

| Note QT: | Qualification Test AT:Assurance Test X:Applicable Test | DRAWIN | IG NO. | ELC-126723-30-00 | | | |
|----------|--------------------------------------------------------|----------|------------------|------------------|-------------|-----|--|
| HRS | SPECIFICATION SHEET | PART NO. | . ZX80-B-5P (30) | | | | |
| 110 | HIROSE ELECTRIC CO., LTD. | CODE NO | CL242 | 2-0051-0-30 | \triangle | 2/2 | |