



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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| APPLICABLE STANDARD | | TEST METHOD | | REQUIREMENTS | | QT | AT | | | | |
|---|---|---------------------------|-----------------|--|-------------------------|----|-----|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -45°C TO +125°C (NOTES 1) | | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE2) | | | | | | |
| | VOLTAGE | 150V AC | | APPLICABLE CONNECTOR | DF9#—*S—1V (69) | | | | | | |
| | CURRENT | 0.5A | | | | | | | | | |
| SPECIFICATIONS | | | | | | | | | | | |
| ITEM | TEST METHOD | | | REQUIREMENTS | | | | | | | |
| CONSTRUCTION | | | | | | | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | | | ACCORDING TO DRAWING. | | | | | | | |
| MARKING | CONFIRMED VISUALLY. | | | <table border="1"> <tr> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> </tr> </table> | | | | X | X | X | X |
| X | X | | | | | | | | | | |
| X | X | | | | | | | | | | |
| ELECTRIC CHARACTERISTICS | | | | | | | | | | | |
| CONTACT RESISTANCE | 100m A (DC OR 1000 HZ). | | | 50mΩ MAX. | | X | — | | | | |
| INSULATION RESISTANCE | 100V DC. | | | 500MΩ MIN. | | X | — | | | | |
| VOLTAGE PROOF | 250V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN. | | X | — | | | | |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | |
| MECHANICAL OPERATION | 100TIMES INSERTIONS AND EXTRACTATIONS. | | | ① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | — | | | | |
| VIBRATION | FREQUENCY 10 TO 55 HZ, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | — | | | | |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | — | | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -65 → 5 TO 35 → 125 → 5 TO 35°C TIME 30→10 TO 15 → 30→10 TO 15min UNDER 5 CYCLES. | | | ① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | — | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2°C, 90 TO 95 %, 96 h. | | | ① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | — | | | | |
| CORROSION SALT MIST | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. | | | ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION. | | X | — | | | | |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) | | | ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION. | | X | — | | | | |
| HEAT RESISTANCE OF SOLDERING | [RECOMMENDED TEMPERATURE PROFILE] 《SOLDERING AREA》 MAX250°C, 220°C FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDERING CONDITION] SOLDERING IRON TEMPERATURE 380°C SOLDERING TIME : WITHIN 3 SECONDS. | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | | | | | |
| SOLDERABILITY | SOLDERING TEMPERATURE: 245±5°C DURATION OF IMMERSION : SOLDERING FOR 3SECONDS | | | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSERD. | | | | | | | |
| REMARKS | | | | | | | | | | | |
| NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE2: STORAGE IS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS. APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY. OPERATION TEMPERATURE FOR TAPE-AND-REAL PRODUCTS SHALL BE -10 TO 50°C. UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402. | | | | | | | | | | | |
| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | | | | | | | |
| 1 | DIS-H-001223 | AR, TAKAHASHI | TS, MIYAZAKI | 06.08.01 | | | | | | | |
| | | APPROVED | MO, NAKAMURA | 06.09.02 | | | | | | | |
| | | CHECKED | TS, MIYAZAKI | 06.09.02 | | | | | | | |
| | | DESIGNED | YH, MICHIDA | 06.08.31 | | | | | | | |
| | | DRAWN | YH, MICHIDA | 06.08.31 | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC4-306115-09 | | | | | | | |
| SPECIFICATION SHEET | | PART NO. | DF9A-*P-1V (69) | | | | | | | | |
| HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL540 | | | | | | | | |
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