| Applicab | le standard | | | | | | | | |
|-----------------------------------|-----------------------------|--|---|---------------------------|---|---------------|-------------------------|----|----|
| - ' ' | Operating Temperature Range | | -55 to +105°C (Note1) | Storage Temperature Range | | erature Range | -10 °C to +60°C (Note3) | | 3) |
| Rating | Operating Humidity Range | | 20% to 80% (Note2) | Storage | Humid | lity Range | 40% to 70% (Note3) | | |
| 3 | Applicable Connector | | DF51%-2S-2C(##) | Current | | | AWG 24 : 2.5A | | , |
| | Applicable Contact | | , | | | | AWG 26 : 2.0A | | |
| | | | DF11-EP2428PC(A)/PCF(A) | 1 | | | AWG 28 : 1.0A | | |
| | ' ' | | | UL · C-UL Voltage | | Voltage | 30 V AC/DC | | |
| | Voltage | | 250 V AC/DC | Rating Current | | Current | AWG 24 to 28 : 1.0A | | |
| | 1 | | Specification | ons | | 1 | | | |
| Item | | | • | | Require | ements QT | | АТ | |
| Construc | ction | 1 | | | | · | | | |
| General Examination | | Visually and by measuring instrument. | | | According to drawing. | | | Χ | Х |
| Marking | Marking | | Confirmed visually. | | | 1 | | | Х |
| Electric (| Characteristics | <u> </u> | | | | | | | |
| Insulation Resistance | | 500 V DC. | | | 1000 MΩ MIN. | | | Х | _ |
| Voltage Proof | | 650 V AC for 1 min. | | | No flashover or breakdown. | | | Х | _ |
| Mechani | cal Characteris | stics | | | | | | | |
| Mechanical Operation | | 30 times insertion and extraction. | | | No damage, crack or looseness of parts. 🖄 | | | Х | _ |
| (Sn Plating) | | TO time as in a still a said as the still a | | | | | | Х | |
| Mechanical Operation (Au Plating) | | 50 times insertion and extraction. | | | | | | ^ | _ |
| Mating and unmating | | It takes out and inserts with a conformity connector. | | | 1.Insertion Force : 22.0N MAX. | | | Х | _ |
| Force | | | | | 2.Extraction Force: 0.5N MIN. | | | | |
| (Sn Plating) | | It takes out and | and insorts with a conformity connector | | Incort | ion Force : 1 | 2 7NI MA V | Х | |
| Mating and unmating Force | | It takes out and inserts with a conformity connector. | | | 1.Insertion Force : 13.7N MAX. 2.Extraction Force : 0.5N MIN. | | | | _ |
| (Au Plating) | | | | | | | | | |
| Vibration | | Frequency 10 to 55 Hz, single amplitude 0.75 mm, at | | | No damage, crack or looseness of parts. 🖄 | | | | _ |
| | | 10 cycles for 3 direction. | | | | | | | |
| Shock Ac | | Acceleration 490 m/s ² duration of pulse 11 ms at 3 | | | | | | Х | _ |
| | | times for 3 direct | ctions. | | | | | | |
| | | | le after housing fixation. | | 11.8N MIN | | | Χ | _ |
| | nental Charact | | | 1 | | | Λ | | |
| Damp Heat (Steady State) | | Exposed at 40 ± 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.) | | | 1.Insulation resistance: 500 MΩ MIN. 2. No damage, crack or looseness of parts. | | | Х | _ |
| I I | | Temperature -55°C→ +105°C | | | 1.Insulation resistance: 1000 MΩ MIN. 🕉 | | | Х | |
| Temperature | | Time 30min→ 30min | | | 2.No damage, crack or looseness of parts. | | | | _ |
| Tomporatoro | | Under 5 Cycles. | | | | | | | |
| | | (The transferring time of the tank is 2 to 3 MIN) | | | | | | | |
| Dry Hoot | | (After leaving the room temperature for 1 to 2h.) | | | | | | Х | |
| Dry Heat Cold | | Exposed at 105±2°C, 96h Exposed at -55±3°C, 96h | | | | | | X | |
| Remarks | | ar | 00_0 0, 0011 | | | | | ^ | |
| Nomains | | | | | | | | | |

Note 1:Include the temperature rising by current.

Note 2:No condensing

Note 3:Apply to the condition of long term storage for unused products before mount on pcb,

After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation.

| | COUN | IT DESCRIPTION OF REVISIONS | DESIGNED | | CHECKED | DATE | |
|------------|-----------|--|------------|-----------------|----------|------------------|--|
| $\sqrt{3}$ | 6 | DIS-H-00004577 | TS. MIYAKI | TS. MIYAKI | | 20190115 | |
| | | | APPROVED | HS. OKAWA | 20160601 | | |
| | | | CHECKED | YN. TAKASHITA | 20160601 | | |
| | | | DESIGNED | TT. OHSAKO | 20160601 | | |
| Unles | s otherwi | ise specified, refer to IEC 60512. | DRAWN | TT. OHSAKO | 20160601 | | |
| Note | QT:Qua | alification Test AT:Assurance Test X:Applicable Test | st DRAWING | DRAWING NO. | | ELC-366296-00-00 | |
| н | ড | SPECIFICATION SHEET | PART NO. | DF51-2EP-2C | | | |
| 46 | \ | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL543-5125-0-00 | | <u>3</u> 1/1 | |