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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | |
|---------------------|-----------------------------|----------------------------------------|---------------------------|----------------------------------------|
| Rating | Operating Temperature Range | -55 °C to +85 °C ⁽¹⁾ | Storage Temperature Range | -10 °C to +60 °C ⁽²⁾ |
| | Operating Humidity Range | Relative humidity 85 % max (Not dewed) | Storage Humidity Range | Relative humidity 85 % max (Not dewed) |
| | Voltage | 200 V AC | Applicable Cable | — |
| | Current | 1 A | Insulation | — |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

CONSTRUCTION

| | | | | |
|---------------------|---------------------------------------|-----------------------|---|---|
| General Examination | Visually and by measuring instrument. | According to drawing. | × | × |
| Marking | Confirmed visually. | | × | × |

ELECTRIC CHARACTERISTICS

| | | | | |
|-----------------------|-------------------------|----------------------------|---|---|
| Contact Resistance | 100 mA (DC or 1000 Hz). | 15 mΩ MAX . | × | — |
| Insulation Resistance | 500 V DC. | 1000 MΩ MIN. | × | — |
| Voltage Proof | 650 V AC for 1 min. | No flashover or breakdown. | × | — |

MECHANICAL CHARACTERISTICS

| | | | | |
|----------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---|---|
| Mechanical Operation | 100 times insertions and extractions. | 1) Contact Resistance: 20 mΩ MAX. 2) No damage, crack and looseness of parts. | × | — |
| Vibration | Frequency 10 to 55 Hz, single amplitude : 0.75 mm, 2 h in 3 directions. | 1) No electrical discontinuity of 1 μs. 2) No damage, crack and looseness of parts. | × | — |
| Shock | 490 m/s ² , duration of pulse 11 ms at 3 times for 3 both axial directions. | | × | — |

ENVIRONMENTAL CHARACTERISTICS

| | | | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---|---|
| Damp Heat (Steady state) | Exposed at 40 ± 2 °C, 90 to 95 %, 96 h. | 1) Contact Resistance: 20 mΩ MAX. 2) Insulation Resistance: 1000 MΩ MIN. 3) No damage, crack and looseness of parts. | × | — |
| Rapid Change of Temperature | Temperature -55 → +5 TO +35 → +85 → +5 TO +35 °C Time 30 → 10 TO 15 → 30 → 10 TO 15 min. Under 5 cycles. | | × | — |
| Corrosion salt mist | Exposed in 5 % salt water spray for 48 h. | 1) Contact Resistance: 20 mΩ MAX. 2) No heavy corrosion. | × | — |
| Sulphur Dioxide | Exposed in 10 PPM FOR 96 h. (Test standard: JEIDA 39) | | × | — |
| Resistance to Soldering Heat | Reflow soldering :250 °C MAX, 220 °C MIN, for 60 s MAX | No deformation of case of excessive looseness of the terminals. | × | — |
| | Soldering irons : 360°C FOR 5 s MAX. | | × | — |
| Solderability | Soldered at solder temperature, 245 ± 3 °C, for immersion duration, 3 s. | A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed. | × | — |

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|-------|--------------------------|-------------|--------------|----------|
| ① 1 | DIS-F-00004353 | HR.NAGAYASU | HT.YAMAGUCHI | 20190301 |

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|
| REMARK (1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. Unless otherwise specified, refer to IEC-60512. Clerical corrections. ① | APPROVED | HS.OKAWA | 20050723 |
| | CHECKED | HS.OZAWA | 20050723 |
| | DESIGNED | TH.NODA | 20050723 |
| | DRAWN | AK.SUZUKAWA | 20050723 |

| | | |
|----------------------------------------------------------------|-------------|-------------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELCX-082599-71-21 |
|----------------------------------------------------------------|-------------|-------------------|

| | | | | | |
|------------|---------------------------|----------|----------------|---|-----|
| HRS | SPECIFICATION SHEET | PART NO. | A3-*PA-2SV(71) | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL621 | ① | 1/1 |