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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 |                             | MIL-STD-348B                              |                           |                                 |
| Rating              | Operating temperature range | $\Delta$ -55 °C to +125 °C ( 95 %RH Max.) | Storage temperature range | -20 °C to +70 °C ( 90 %RH Max.) |
|                     | Power                       | -- W                                      | Characteristic impedance  | 50 $\Omega$ ( 0 to 30 GHz)      |
|                     | Peculiarity                 | ----                                      | Applicable cable          | ----                            |


**SPECIFICATIONS**

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





**CONSTRUCTION**

|                     |                                       |                       |   |   |
|---------------------|---------------------------------------|-----------------------|---|---|
| General examination | Visually and by measuring instrument. | According to drawing. | X | X |
| Marking             | Confirmed visually.                   |                       | - | - |




**ELECTRICAL CHARACTERISTICS**

|   |   |                            |                   |   |   |
|---|---|----------------------------|-------------------|---|---|
| Contact resistance  | 100 mA (DC or 1000 Hz)                        | Center contact             | 6 m $\Omega$ Max. | X | X |
|   |   | Outer contact              | 6 m $\Omega$ Max. | X | X |
| Insulation resistance   | 500 V DC.                                     | 1000 M $\Omega$ Min.       | X                 | X |   |
| Withstanding voltage  | 500 V AC for 1 min. current leakage 2 mA Max. | No flashover or breakdown. | X                 | X |   |
| V.S.W.R.<br> | Frequency 0 to 30 GHz.                        | V.S.W.R. 1.5 Max.          | X                 | - |   |
| Insertion loss  | Frequency - to - GHz.                         | --- dB Max.                | -                 | - |   |


**MECHANICAL CHARACTERISTICS**

|  |   |   |                    |   |   |
|--|---|---|--------------------|---|---|
| Contact insertion and extraction forces  | $\phi$ --- by steel gauge.  | Insertion force                             | --- N Max.         | - | - |
|  |   | Extraction force                            | --- N Min.         | - | - |
| Insertion and extraction forces<br> | Measured by applicable connector.<br>[SMPJ-HKJ]   | Insertion force                             | 18 N Max.          | X | X |
|  |   | Extraction force                            | 2.2 N Min.         | X | X |
| Mechanical operation<br>          | 1000 times insertion and extractions.   | 1)Contact resistance:<br>Center contact     | 12 m $\Omega$ Max. | X | - |
|  |   | Outer contact                               | 12 m $\Omega$ Max. |   |   |
| Vibration<br>                     | Frequency 10 to 500 Hz single amplitude 0.75 mm,<br>98 m/s <sup>2</sup> at 10 cycles for 3 directions.                                  | 1)No electrical discontinuity of 1 $\mu$ s. |                    | X | - |
|  |   | 2)No damage, crack and looseness of parts.  |                    |   |   |
| Shock<br>                         | 490 m/s <sup>2</sup> directions of pulse 11 ms<br>at 3 times for 3 directions.  |   |                    | X | - |
| Cable clamp strength<br>(Against cable pull)   | Using a pulling tester, pull the cable axially at a rate of --- mm/min. and record the strength at which the cable or connector breaks. | --- N Min.                                  |                    | - | - |

**ENVIRONMENTAL CHARACTERISTICS**

|  |   |  |                      |   |   |
|--|---|--|----------------------|---|---|
| Damp heat<br>                   | Exposed at +25 to +65 °C, 90 to 98 %<br>total 10 cycles. ( 240 h )  | 1)Insulation resistance:<br>(at high humidity) | 100 M $\Omega$ Min.  | X | - |
|  |   | 2) Insulation resistance:<br>(at dry)          | 1000 M $\Omega$ Min. |   |   |
|  |   | 3)No damage, crack and looseness of parts.     |                      |   |   |
| Rapid change of temperature<br> | Temperature -55 $\rightarrow$ - $\rightarrow$ +125 $\rightarrow$ - °C<br>Time 30 $\rightarrow$ 3 $\rightarrow$ 30 $\rightarrow$ 3 min.<br>Under 5 cycles. | No damage, crack and looseness of parts.       |                      | X | - |
| Corrosion salt mist<br>         | Exposed in 5 % salt water spray for 48 h.   | V.S.W.R. 1.5 Max. [0 to 30 GHz]                |                      | X | - |

| Count      | Description of revisions | Designed     | Checked    | Date     |
|------------|--------------------------|--------------|------------|----------|
| $\Delta$ 1 | DIS-D-00003210           | TK.SAWAGUCHI | KY.SHIMIZU | 18.06.07 |

|  |          |              |          |
|--|----------|--------------|----------|
| Remark<br>RoHS COMPLIANT<br>Note  The characteristic after mounting on the board. | Approved | TO.KATAYAMA  | 18.03.20 |
|  | Checked  | KY.SHIMIZU   | 18.03.20 |
|  | Designed | TK.SAWAGUCHI | 18.03.19 |
|  | Drawn    | TK.SAWAGUCHI | 18.03.19 |

Unless otherwise specified, refer to IEC 60512.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

|            |                           |          |   |  |
|------------|---------------------------|----------|---|--|
| <b>HRS</b> | SPECIFICATION SHEET       | Part No. | ELC-373489-01-00                        |  |
|            | HIROSE ELECTRIC CO., LTD. | Code No. | SMP-PR(SB)-SMT-1(01)<br>CL338-1104-0-01 |  |