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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 | Δ -55 °C to +125 °C (95 %RH Max.) | Storage temperature range | -20 °C to +70 °C (90 %RH Max.) |
| | Power | -- W | Characteristic impedance | 50 Ω (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 Ω Max. | X | X |
| | | Outer contact | 6 m Ω Max. | X | X |
| Insulation resistance | 500 V DC. | 1000 M Ω 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.  | 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 | ϕ --- by steel gauge. | Insertion force | --- N Max. | - | - |
| | | Extraction force | --- N Min. | - | - |
| Insertion and extraction forces  | Measured by applicable connector. [SMPJ-HKJ] | Insertion force | 45 N Max. | X | X |
| | | Extraction force | 9 N Min. | X | X |
| Mechanical operation  | 500 times insertion and extractions. | 1)Contact resistance: Center contact | 12 m Ω Max. | X | - |
| | | Outer contact | 12 m Ω Max. | | |
| Vibration  | Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s ² at 10 cycles for 3 directions. | 1)No electrical discontinuity of 1 μ s. | | X | - |
| | | 2)No damage, crack and looseness of parts. | | | |
| Shock  | 490 m/s ² directions of pulse 11 ms at 3 times for 3 directions. | | | X | - |
| Cable clamp strength (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  | Exposed at +25 to +65 °C, 90 to 98 % total 10 cycles. (240 h) | 1)Insulation resistance: (at high humidity) | 100 M Ω Min. | X | - |
| | | 2) Insulation resistance: (at dry) | 1000 M Ω Min. | | |
| | | 3)No damage, crack and looseness of parts. | | | |
| Rapid change of temperature  | Temperature -55 \rightarrow - \rightarrow +125 \rightarrow - °C Time 30 \rightarrow 3 \rightarrow 30 \rightarrow 3 min. Under 5 cycles. | No damage, crack and looseness of parts. | | X | - |
| Corrosion salt mist  | 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 |
|------------|--------------------------|--------------|------------|----------|
| Δ 1 | DIS-D-00003210 | TK.SAWAGUCHI | KY.SHIMIZU | 18.06.07 |

| | | | |
|--|----------|--------------|----------|
| Remark RoHS COMPLIANT 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 | Drawing No. | ELC-373488-01-00 | | |
|  | SPECIFICATION SHEET | Part No. | SMP-PR(LD)-SMT-1(01) | |
| | HIROSE ELECTRIC CO., LTD. | Code No. | CL338-1103-0-01 | Δ 1/1 |