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

REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	-55 °C ~ +85 °C	STORAGE TEMPERATURE RANGE	-10 °C ~ +50 °C (PACKED CONDITION)
	VOLTAGE	30 V [AC(rms) / DC]	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)
	CURRENT	0.4 A [AC(rms) / DC] (NOTE 1)	APPLICABLE CABLE	FPC (T=0.2 ±0.03 mm)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	○	○
MARKING	CONFIRMED VISUALLY		○	○

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 1 mA AC (OR 1,000 Hz)	100 mΩ MAX INCLUDING FPC/FFC BULK RESISTANCE (L=8 mm)	○	○
INSULATION RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100 V	500 MΩ MIN	○	○
VOLTAGE PROOF	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150 V FOR 1 min	NO FLASHOVER OR BREAKDOWN	○	○

MECHANICAL CHARACTERISTICS


FPC RETENSION FORCE	MEASURE BY APPLICABLE FPC/FFC (T=0.2) AT INITIAL CONDITION	① HORIZONTAL DIRECTION : 0.25 N * n MIN ② VERTICAL DIRECTION : 0.25 N * n MIN (n : NUMBER OF CONTACTS)	○	-
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRATIONS	① CONTACT RESISTANCE : 100 mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	○	-
VIBRATION	FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2 hrs, IN 3 DIRECTIONS	① NO ELECTRICAL DISCONTINUITY OF 1 μs ② CONTACT RESISTANCE : 100 mΩ MAX	○	-
SHOCK	981 m/s ² DIRECTION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS	○	-

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90~95 %, 96 hrs	① CONTACT RESISTANCE : 100 mΩ MAX ② INSULATION RESISTANCE : 100 MΩ MIN ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS	○	-
RAPID CHANGE OF TEMPERATURE	TEMP. : -55 → 15~35 → +85 → 15~35 °C TIME : 30 → 2~3 → 30 → 2~3 min 5 CYCLES WITH ABOVE CONDITIONS			
DAMP HEAT, CYCLE	TEMPERATURE : -10 → +65 °C HUMIDITY : 90~95 % 10 CYCLE (240 hrs)			
DRY HEAT	EXPOSED AT 85 °C, 96 hrs	① CONTACT RESISTANCE : 100 mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	○	-
COLD	EXPOSED AT -55 °C, 96 hrs			
CORROSION SALT SPRAY	EXPOSED AT 35 °C, 5 % SALT WATER SPRAY FOR 48 hrs	① CONTACT RESISTANCE : 100 mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR	○	-
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 hrs (TEST STANDARD : JEIDA-38)			
RESISTANCE TO SOLDERING HEAT	REFLOW SOLDERING TEMP. : 230 °C MIN FOR 60 sec PEAK TEMP. : 250 °C MAX	① NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS ② NO DAMAGE OF ELECTRICAL PERFORMANCE	○	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 245 ±3 °C FOR IMMERSION DURATION 3 ±0.3 sec			

NOTE

- 1) WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

REMARKS	CONDITIONS FOR TESTING	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	DRAWING FOR REFERENCE <i>This is subject to change without notice</i>	J.H. BOO 21.02.16	J.H. BOO 21.02.16	D.H. CHO 21.02.16	D.H. CHO 21.02.16	

UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. TF42-**S-0.35SH(895)
CODE NO. (OLD)	DRAWING NO. ELC4-633304-95	CODE NO. CL ****_****_*_***

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