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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
△						△					
△						△					
<b>APPLICABLE STANDARD</b>											
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)					
<b>SPECIFICATIONS</b>											
ITEM		TEST METHOD				REQUIREMENTS				QT	AT
<b>CONSTRUCTION</b>											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT				ACCORDING TO DRAWING				○	○
MARKING		CONFIRMED VISUALLY								○	○
<b>ELECTRICAL CHARACTERISTICS</b>											
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				○	○
<b>MECHANICAL CHARACTERISTICS</b>											
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 <sup>2</sup> DIRECTION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS				③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS				○	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>											
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90~95 %, 96 hrs				① CONTACT RESISTANCE : 100 mΩ MAX				○	-
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				② INSULATION RESISTANCE : 100 MΩ MIN ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS				○	-
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				○	-
COLD		EXPOSED AT -55 °C, 96 hrs				② NO DAMAGE, CRACK AND LOOSENESS OF PARTS				○	-
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				○	-
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 hrs (TEST STANDARD : JEIDA-38)				③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR				○	-
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				A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.				○	-
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 This is subject to change without notice				J.H.BOO 21.02.16	J.H.BOO 21.02.16	D.H.CHO 21.02.16	D.H.CHO 21.02.16	DEPT 21.02.16 ENG		
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 ****_****_*_***			1 1		