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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	
△	8	RE-5-2033	Y.K.G	C.D.H	18.10.04	△				
△					△					
APPLICABLE STANDARD										
RATING	OPERATING TEMPERATURE RANGE	△ -40°C ~ +105°C (note1)			STORAGE TEMPERATURE RANGE	-10°C ~ +50°C(Packed Condition)				
	VOLTAGE	50V [AC(rms) / DC]			OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90% MAX (NOT DEWED)				
	CURRENT	△ 0.5A [AC(rms) / DC] (note2)			APPLICABLE CABLE	FPC/FFC (TYPE A : t=0.3±0.03mm) (TYPE B : t=0.3±0.05mm)				
SPECIFICATIONS										
ITEM		TEST METHOD			REQUIREMENTS			QT	AT	
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 AC 20mV MAX, 1mA			50 mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)			○	○	
INSULATION RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V			500 MΩ MIN.			○	○	
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			○	○	
MECHANICAL CHARACTERISTICS										
FPC RETENSION FORCE		△ MEASURE BY APPLICABLE FPC/FFC(t=0.3) AT INITIAL CONDITION			①HORIZONTAL DIRECTION : 0.4N*n min. ②VERTICAL DIRECTION : 0.3N*n min. (n = Number of Contacts)(note 3)			○	-	
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRATIONS			①CONTACT RESISTANCE: 50mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS			○	-	
VIBRATION		FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS			①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX			○	-	
SHOCK		981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.			③NO DAMAGE,CRACK AND LOOSENESS OF PARTS			○	-	
ENVIRONMENTAL CHARACTERISTICS										
DAMP HEAT(STEADY STATE)		EXPOSED AT 40±2°C, 90~95 %, 96Hr.			①CONTACT RESISTANCE: 50 mΩ MAX.			○	-	
RAPID CHANGE OF TEMPERATURE		△ TEMPERATURE:-40±2→-15~35→+105±2→-15~35 °C TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.			②INSULATION RESISTANCE: 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	-	
DAMP HEAT, CYCLE		TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)						○	-	
DRY HEAT		△ EXPOSED AT 105±2°C, 96Hr			①CONTACT RESISTANCE : 50mΩ MAX			○	-	
COLD		EXPOSED AT -40±2°C, 96Hr			②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	-	
CORROSION SALT SPRAY		EXPOSED AT 35±2°C, 5±1% SALT WATER SPRAY FOR 48Hr			①CONTACT RESISTANCE 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			○	-	
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)			③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			○	-	
RESISTANCE TO SOLDERING HEAT		1)REFLOW SOLDERING: PEAK TMP. : 250°C MAX. TMP. 230°C MIN FOR 60s 2)SOLDERING IRONS TMP. : 350±10°C FOR 5±1s			①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE			○	-	
SOLDER ABILITY		SOLDER DIPPING TEMPERATURE 245±5°C (TEST STANDARD : MIL-STD-202) FOR IMMERSION DURATION, 3±0.3 sec.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSERD.			○	-	
<p>△ (note 1) FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105°C</p> <p>△ (note 2) 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.</p> <p>△ (note 3) THERE'S A CASE WHICH FPC/FFC RETENTION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.</p>										
REMARKS				CONDITIONS FOR TESTING		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
						B.J KIM	B.J KIM	D.H CHO	H.C SONG	
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.				18.03.02		18.03.02	18.03.02	18.03.02	18.03.02	
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST										
HIROSE KOREA CO.,LTD.			SPECIFICATION SHEET				PART NO. TF31-**S-0.5SH (800)			
CODE NO.(OLD)		DRAWING NO.		CODE NO.						
CL		ELC4-632346		CL 6535-****-* -800		1/1				