

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		
①	8	RE-5-2033	Y.K.G	C.D.H	18.10.04	△							
②	1	RE-5-2988	C.Y.H	C.D.H	23.04.24	△							
APPLICABLE STANDARD													
RATING	OPERATING TEMPERATURE RANGE		①	-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		①	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				O	O		
MARKING		CONFIRMED VISUALLY								O	O		
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)				O	O		
INSULATION RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V				500 MΩ MIN.				O	O		
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.				△	NO BREAKDOWN.				O		
MECHANICAL CHARACTERISTICS													
FPC RETENSION FORCE		①	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)				O		
MECHANICAL OPERATION			20 TIMES INSERTIONS AND EXTRATIONS				①CONTACT RESISTANCE: 50mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS				O		
VIBRATION			FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS				①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX				O		
SHOCK			981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③NO DAMAGE,CRACK AND LOOSENESS OF PARTS				O		
ENVIRONMENTAL CHARACTERISTICS													
DAMP HEAT(STEADY STATE)			EXPOSED AT 40±2°C, 90~95 %, 96Hr.				①CONTACT RESISTANCE: 50 mΩ MAX.				O		
RAPID CHANGE OF TEMPERATURE		①	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.				O		
DAMP HEAT, CYCLE			TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)								O		
DRY HEAT		①	EXPOSED AT 105±2°C, 96Hr				①CONTACT RESISTANCE : 50mΩ MAX				O		
COLD			EXPOSED AT -40±2°C, 96Hr				②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				O		
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.				O		
HYDROGEN SULPHIDE			EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)				③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				O		
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				③NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE				O		
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 IMMERSSED.				O		
<p>① (note 1) FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105°C</p> <p>① (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>① (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 B.J KIM	DESIGNED B.J KIM	CHECKED D.H CHO	APPROVED H.C SONG	RELEASED ENG 23.04.24 DEPT		
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.							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) CL			DRAWING NO. ELC4-632346			CODE NO. CL 6535-****-*-800			1/1				