

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△	8	RE-5-2033	Y.K.G	C.D.H	18.10.24	△					
△						△					
APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE		△ -40℃ ~ +105℃ (note1)			STORAGE TEMPERATURE RANGE		-10℃ ~ +50℃(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			0	0	
MARKING		CONFIRMED VISUALLY							0	0	
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)			0	0	
INSULATION RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V				500 MΩ MIN.			0	0	
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.				NO FLASHOVER OR BREAKDOWN.			0	0	
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)			0	-	
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRATIONS				①CONTACT RESISTANCE: 50mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS			0	-	
VIBRATION		FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS				①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX			0	-	
SHOCK		981m/s <sup>2</sup> DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③NO DAMAGE,CRACK AND LOOSENESS OF PARTS			0	-	
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT(STEADY STATE)		EXPOSED AT 40±2℃, 90~95 %, 96Hr.				①CONTACT RESISTANCE: 50 mΩ MAX.			0	-	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE:-40±2→15~35→+105±2→15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.				②INSULATION RESISTANCE: 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-	
DAMP HEAT, CYCLE		TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)							0	-	
DRY HEAT		△ EXPOSED AT 105±2℃, 96Hr				①CONTACT RESISTANCE : 50mΩ MAX			0	-	
COLD		EXPOSED AT -40±2℃, 96Hr				②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-	
CORROSION SALT SPRAY		EXPOSED AT 35±2℃, 5±1% SALT WATER SPRAY FOR 48Hr				①CONTACT RESISTANCE 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			0	-	
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)				③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			0	-	
RESISTANCE TO SOLDERING HEAT		1)REFLOW SOLDERING: PEAK TMP. : 250℃ MAX. TMP. 230℃ MIN FOR 60s 2)SOLDERING IRONS TMP. : 350±10℃ FOR 5±1s				①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE			0	-	
SOLDER ABILITY		SOLDER DIPPING TEMPERATURE 245±5℃ (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 IMMERSUED.			0	-	
△ (note 1) FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105℃											
△ (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.											
△ (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.											
REMARKS CONDITIONS FOR TESTING					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					S.G.LEE	S.G.LEE	D.H CHO	H.C SONG			
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.					17.06.02	17.06.02	17.06.02	17.06.02			
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.				SPECIFICATION SHEET				PART NO. TF31-**S-0.5SH (895)			
CODE NO.(OLD) CL			DRAWING NO. ELC4-632347			CODE NO. CL 6535-0064-8-895			1 1		