

	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		-40°C ~ +105°C (note 1)			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] (note 2)			APPLICABLE CABLE		FPC/FFC (t=0.3±0.03mm)			
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS			QT	AT	
CONSTRUCTION											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT				ACCORDING TO DRAWING			O	O	
MARKING		CONFIRMED VISUALLY									
ELECTRICAL CHARACTERISTICS											
CONTACT RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF AC 20mV MAX (1KHz), 1mA.				50mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)			O	O	
INSULATION RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V.				500MΩ MIN.			O	O	
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.				NO BREAKDOWN			O	O	
MECHANICAL CHARACTERISTICS											
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRATIONS.				① CONTACT RESISTANCE : 50mΩ MAX. ② NO DAMAGE,CRACK AND LOOSENESS OF PARTS			O	-	
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, - m/s ² FOR 10 CYCLES IN 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1μs. ② CONTACT RESISTANCE : 50mΩ MAX.			O	-	
SHOCK		981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③ NO DAMAGE,CRACK AND LOOSENESS OF PARTS			O	-	
FPC/FFC RETENSION FORCE		MEASURE BY APPLICABLE FPC/FFC. (THICKNESS OF FPC/FFC SHALL BE t=0.30mm AT INITIAL CONDITION.)				HORIZONTAL DIRECTION : 0.3N X n MIN. (n : NUMBER OF CONTACTS). (note 3)			O	-	
ENVIRONMENTAL CHARACTERISTICS											
RAPID CHANGE OF TEMPERATURE		TEMPERATURE : -40 → 15 TO 35 → +105 → 15 TO 35 °C TIME : 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.				① CONTACT RESISTANCE : 50mΩ MAX. ② INSULATION RESISTANCE : 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS			O	-	
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2°C, 90~95 %, 96h.							O	-	
DAMP HEAT, CYCLE		TEMPERATURE : -10 TO +65°C HUMIDITY : 90 TO 95% 10 CYCLE, TOTAL 240h.							O	-	
DRY HEAT		EXPOSED AT 105±2°C, 96h.				① CONTACT RESISTANCE : 50mΩ MAX.			O	-	
COLD		EXPOSED AT -40±3°C, 96h.				② NO DAMAGE, CRACK OR LOOSENESS OF PARTS			O	-	
CORROSION SALT MIST		EXPOSED AT 35±2°C, 5% SALT WATER SPRAY FOR 96h.				① CONTACT RESISTANCE : 50mΩ MAX.			O	-	
SURPHUR DIOXIDE [JIS C 0090]		EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5%, 25±5 PPM FOR 96h.				② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR			O	-	
HYDROGEN SULPHIDE [JIS C 0092]		EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5%, 10 TO 15 PPM FOR 96h.							O	-	
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING : PEAK TMP. 250°C MAX. REFLOW TMP.230°C MIN. FOR 60 sec. 2) SOLDERING IRONS : TMP. 350±5°C FOR 5±1 sec.				① NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS ② NO DAMAGE OF ELECTRICAL PERFORMANCE			O	-	
SOLDERABILITY		SOLDER DIPPING TEMPERATURE 245±5°C, FOR IMMERSION DURATION, 3±0.3 sec.				A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACR BEING IMMERSERD.			O	-	
△ (note 1) FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105°C											
△ (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					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			
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.				SPECIFICATION SHEET				PART NO. TF38-**S-0.5SV(830)			
CODE NO.(OLD)			DRAWING NO.			CODE NO.			1		
CL			ELC4-632306			CL 6537-****-*-830			1		