


	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	△								
△						△								
<b>APPLICABLE STANDARD</b>														
<b>RATING</b>	<b>OPERATING TEMPERATURE RANGE</b>		-40°C ~ +105°C ( <i>note1</i> )			<b>STORAGE TEMPERATURE RANGE</b>		-10°C ~ +50°C(Packed Condition)						
	<b>VOLTAGE</b>		50V [AC(rms) / DC]			<b>OPERATING OR STORAGE HUMIDITY RANGE</b>		Relative Humidity 90% MAX(NOT DEWED)						
	<b>CURRENT</b>		0.5A [AC(rms) / DC] ( <i>note 2</i> )			<b>APPLICABLE CABLE</b>		FPC/FFC (t=0.3±0.03mm)						
<b>SPECIFICATIONS</b>														
<b>ITEM</b>		<b>TEST METHOD</b>				<b>REQUIREMENTS</b>				<b>QT</b>	<b>AT</b>			
<b>CONSTRUCTION</b>														
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT				ACCORDING TO DRAWING				O	O			
MARKING		CONFIRMED VISUALLY												
<b>ELECTRICAL CHARACTERISTICS</b>														
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 FLASHOVER OR BREAKDOWN				O	O			
<b>MECHANICAL CHARACTERISTICS</b>														
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 <sup>2</sup> FOR 10 CYCLES IN 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1μs. ② CONTACT RESISTANCE : 50mΩ MAX.				O	-			
SHOCK		981m/s <sup>2</sup> DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③ NO DAMAGE,CRACK AND LOOSENESS OF PARTS				O	-			
FPC/FFC RETENSION FORCE		① 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). ( <i>note 3</i> )				O	-			
<b>ENVIRONMENTAL CHARACTERISTICS</b>														
RAPID CHANGE OF TEMPERATURE		① 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 IMMERSED.				O	-			
<p>① (<i>note 1</i>) FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105°C</p> <p>② (<i>note 2</i>) 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>③ (<i>note 3</i>) THERE'S A CASE WHICH FPC/FFC RETENSION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENSION FORCE.</p>														
<b>REMARKS</b>					<b>DRAWN</b>	<b>DESIGNED</b>	<b>CHECKED</b>	<b>APPROVED</b>	<b>RELEASED</b>					
					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						
<b>NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST</b>														
<b>HIROSE KOREA CO.,LTD.</b>				<b>SPECIFICATION SHEET</b>				<b>PART NO.</b> <b>TF38-**S-0.5SV(830)</b>						
<b>CODE NO.(OLD)</b>			<b>DRAWING NO.</b>			<b>CODE NO.</b>								
CL			ELC4-632306			CL 6537-****-*-830			1/1					