

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					
APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-40℃ ~ +105℃			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](note1)			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			0	0	
MARKING		CONFIRMED VISUALLY							0	0	
ELECTRICAL CHARACTERISTICS											
CONTACT RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 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 500V				100 MΩ MIN.			0	0	
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 250V 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				①VERTICAL DIRECTION : 0.3 x n N MIN ②HORIZONTAL DIRECTION : 0.4 x n N MIN (n=Number of Contacts)			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, SINGLE AMPLITUDE 0.75 mm AT 10CYCLES, IN 3 AXIAL DIRECTIONS				①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX			0	-	
SHOCK		981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL 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 CHAGE OF TEMPERATURE		TEMPERATURE : -40±3 →15~35 → 105±2 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.				②INSULATION RESISTANCE: 50 MΩ 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±3℃, 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, 40±2℃, 80±5%, FOR 96Hr				③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			0	-	
RESISTANCE TO SOLDERING HEAT		REFLOW SOLDERING: TEMP. : 250℃ MAX. 230℃ MIN FOR 60s. FREE HEAT 150 ~ 200℃, 90 ~ 120s				①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE			0	-	
SOLDER ABILITY		SOLDERED AT SOLDER TEMPERATURE, 245±3℃ FOR IMMERSION DURATION, 3±0.3s				DIP & LOOK TEST : 95% MIN. A NEW UNIFORM COATING OF SOLDER			0	-	
(note1) 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.											
(note2) DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ON TO A PCB CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE											
REMARKS		CONDITIONS FOR TESTING			DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					YOON G.Y 18.10.15	YOON G.Y 18.10.15	CHO D.H 18.10.15	CHO D.H 18.10.15	<div>ENG 18.10.15 DEPT</div>		
UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512.											
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST											
HIROSE KOREA CO.,LTD.		SPECIFICATION SHEET				PART NO. TF46-**S-0.5SH(800)					
CODE NO.(OLD) CL		DRAWING NO. ELC4-632297			CODE NO. CL *****				1 1		