	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	O	O
MARKING	CONFIRMED VISUALLY		O	O
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 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 500V	100 MΩ MIN.	O	O
VOLTAGE PROOF	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 250V FOR 1 min	NO FLASHOVER OR BREAKDOWN.	O	O
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)	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, SINGLE AMPLITUDE 0.75 mm AT 10CYCLES, IN 3 AXIAL DIRECTIONS	①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX ③NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	−
SHOCK	981m/s² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.		O	−
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT(STEADY STATE)	EXPOSED AT 40±2℃, 90~95 %, 96Hr.	①CONTACT RESISTANCE: 50 mΩ MAX. ②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	−
RAPID CHAGE OF TEMPERATURE	TEMPERATURE : −40±3 →15~35 → 105±2 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.		O	−
DAMP HEAT, CYCLE	TEMPERATURE −10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)		O	−
DRY HEAT	EXPOSED AT 105±2℃, 96Hr	①CONTACT RESISTANCE : 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	−
COLD	EXPOSED AT −40±3℃, 96Hr		O	−
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. ③NO EVIDENCE OF CORROSISON WHICH AFFECTS TO OPERATION OF CONNECTOR.	O	−
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM, 40±2℃, 80±5%, FOR 96Hr		O	−
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	O	−
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	O	−

(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
UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512.	YOON G.Y 18.10.15	YOON G.Y 18.10.15	CHO D.H 18.10.15	CHO D.H 18.10.15	ENG 18.10.15 DEPT

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)	DRAWING NO.	CODE NO.	
CL	ELC4−632297	CL ****−****−*	1/1