	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	−40℃ ~ +105℃ *(note 1)*	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 *(note 2)*	APPLICABLE CABLE	FPC/FFC (t=0.26±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, 20mV AC	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	500 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				
FFC RETENSION FORCE	MEASURE BY APPLICABLE FPC/FFC AT INITIAL CONDITION	HORIZONTAL DIRECTION : 0.4N * n MIN. (n = Number of Contacts) *(note 3)*	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, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS	①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX ③NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	–
SHOCK	981m/s^2 DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.		O	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT(STEADY STATE)	EXPOSED AT 40±2℃, 90~95 %, 96Hr.	①CONTACT RESISTANCE: 50 mΩ MAX. ②INSULATION RESISTANCE: 100 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	O	–
COLD	EXPOSED AT −40±3℃, 96Hr	②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
CORROSION SALT SPRAY	EXPOSED AT 35±2℃, 5±1% SALT WATER SPRAY FOR 96Hr	①CONTACT RESISTANCE 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)		O	–
RESISTANCE TO SOLDERING HEAT	REFLOW SOLDERING: PEAK TMP. : 250℃ MAX. REFLOW TMP. 230℃ MIN FOR 30s	①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE	O	–
SOLDER ABILITY	SOLDER DIPPING TEMPERATURE 245±3℃	95% MIN. A NEW UNIFORM COATING OF SOLDER	O	–

(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	S.G.LEE	D.H.CHO	ENG
	19.01.02	19.01.02	19.01.02	19.01.02	19.05.24 DEPT
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. TF45-**S-0.5SH (800)	
CODE NO.(OLD) CL	DRAWING NO. ELC4-632748-80	CODE NO. CL 6555-0018-5-800	1/1