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

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	−55℃ ~ +85℃	STORAGE TEMPERATURE RANGE	−10℃ ~ +50℃(Packed Condition)
	VOLTAGE	30V [AC(rms) / DC]	OPERATING OR STORAGE HUMIDITY RANGE	Relative Humidity 90% MAX(NOT DEWED)
	CURRENT	0.15A [AC(rms) / DC] *(note1)*	APPLICABLE CABLE	FPC (t=0.12±0.02mm)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING *(Note 2)*	O	O
MARKING	CONFIRMED VISUALLY		O	O
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	MATE APPLICABLE FPC AND APPLY A CURRENT OF 1mA DC(OR 1,000Hz)	300 mΩ MAX. INCLUDING FPC BULK RESISTANCE(L=8mm)	O	O
INSULATION RESISTANCE	MATE APPLICABLE FPC AND APPLY A VOLTAGE OF DC 100V	50 MΩ MIN.	O	O
VOLTAGE PROOF	MATE APPLICABLE FPC AND APPLY A VOLTAGE OF AC 90V FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	O	O
MECHANICAL CHARACTERISTICS				
FPC RETENTION FORCE	MEASURE BY APPLICABLE FPC(t=0.12) AT INITIAL CONDITION	HORIZONTAL DIRECTION : 3.75 N MIN.	O	–
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS	①CONTACT RESISTANCE: 300 mΩ 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 : 300 mΩ MAX ③NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	–
SHOCK	981m/s^2 DURATION 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: 300 mΩ MAX. ②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE : −55 → 15~35 → +85 → 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)	①CONTACT RESISTANCE: 300 mΩ MAX. ②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
DRY HEAT	EXPOSED AT 85℃, 96Hr	①CONTACT RESISTANCE : 300 mΩ MAX	O	–
COLD	EXPOSED AT −55℃, 96Hr	②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
CORROSION SALT SPRAY	EXPOSED AT 35℃, 5 % SALT WATER SPRAY FOR 48Hr	①CONTACT RESISTANCE 300 mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)	③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	O	–
RESISTANCE TO SOLDERING HEAT	REFLOW SOLDERING: PEAK TMP. : 250℃ MAX. TMP. 230℃ MIN FOR 60s	①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE	O	–
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±3℃ FOR IMMERSION DURATION, 3±0.3 SEC	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.	O	–

(note 1)
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.

REMARKS CONDITIONS FOR TESTING	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Note 2. This is a bottom contact connector with back flip lock system.	OH.C.U 19.12.09	OH.C.U 19.12.09	OH.C.U 19.12.09	CHO.D.H 19.12.09	ENG 20.03.04 DEPT
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.					

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. TF20-15S-0.175SHW(800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
	ELC4-632840-80	CL 6556-0003-4-800	1/1