

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
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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				O	-
SHOCK		981m/s ² DURATION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③NO DAMAGE,CRACK AND LOOSENESS OF PARTS				O	-
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT(STEADY STATE)		EXPOSED AT 40±2℃, 90~95 %, 96Hr.				①CONTACT RESISTANCE: 300 mΩ MAX.				O	-
RAPID CHANGE OF TEMPERATURE		TEMPERATURE : -55 → 15~35 → +85 → 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.				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	<div>ENG 20.03.04 DEPT</div>		
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. ELC4-632840-80			CODE NO. CL 6556-0003-4-800			1/1		