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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△1	2	RE-5-2548	S.J.H	C.D.H	21.01.29	△					
△						△					

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	-40℃ ~ +85℃	STORAGE TEMPERATURE RANGE	-10℃ ~ +50℃(Packed Condition)
	VOLTAGE	50V [AC(rms) / DC]	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90%MAX(NOT DEWED)
	CURRENT	Signal Contact 0.5A (note1) △1 Power Contact 12A(6A/Pin) (note2)	APPLICABLE CABLE	FPC / FFC (t=0.3±0.03, COPPER FOIL = 2oz)

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 AC 20mV MAX, 100mA MAX	50 mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)	O	O
INSULATION RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V	500 MΩ MIN.	O	O
VOLTAGE PROOF	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	O	O
MECHANICAL CHARACTERISTICS				
FPC RETENSION FORCE	MEASURE BY APPLICABLE FPC/FFC AT INITIAL CONDITION	①HORIZONTAL DIRECTION : 25N(2.5Kgf) MIN. ②VERTICAL DIRECTION : 15N(1.5Kgf) MIN.	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/s² 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: 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
RAPID CHAGE OF TEMPERATURE	TEMPERATURE : -40±2 → 15~35 → +85±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 85±2℃, 96Hr	①CONTACT RESISTANCE : 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
COLD	EXPOSED AT -40±2℃, 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 CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	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.	O	–
SOLDER ABILITY	SOLDER DIPPING TEMPERATURE 245±5℃ 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 APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70% OF THE RATED CURRENT VALUE.
(note 2)
△1 THE POWER TERMINAL IS 6A/PIN AND CAN BE USED AS 12A BY CONNECTING TWO TERMINALS IN PARALLEL.

REMARKS CONDITIONS FOR TESTING	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.	J.H SEO 19.08.28	J.H SEO 19.08.28	D.H CHO 19.08.28	D.H CHO 19.08.28	ENG 20.02.01 DEPT

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

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. TF43SW-66S/4-0.5SH(800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-632535-80	CL 6553-0003-5-800	1/1