	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△1	4	RE-5-3103	K.C.J	Y.W.S	24.01.18	△					
△						△					

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	-55℃ ~ +125℃ (NOTE1)	STORAGE TEMPERATURE RANGE	-10℃ TO 60℃ (NOTE2)
	VOLTAGE	SIGNAL CONTACT : 50V AC POWER CONTACT : 200V AC	STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX (NOT DEWED)
	CURRENT	SIGNAL CONTACT : 0.5A (NOTE3) POWER CONTACT : 3.0A	OPERATING HUMIDITY RANGE	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	X	X
MARKING			X	X
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100mA(DC or 1000Hz)	SIGNAL CONTACT : 50mΩ MAX POWER CONTACT : 30mΩ MAX	X	-
INSULATION RESISTANCE △1	SIGNAL CONTACT : 100V DC POWER CONTACT : 250V DC	SIGNAL CONTACT : 100MΩ MIN POWER CONTACT : 1000MΩ MIN	X	-
VOLTAGE PROOF △1	SIGNAL CONTACT : 150V AC FOR 1 min POWER CONTACT : 600V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN	X	X
MECHANICAL CHARACTERISTICS				
INSERTION FORCE	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE : 100N MAX	X	-
WITHDRAWAL FORCE		WITHDRAWAL FORCE : 8N MIN		
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS	① CONTACT RESISTANCE: SIGNAL CONTACT : 70mΩ MAX POWER CONTACT : 40mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	X	-
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min SINGLE AMPLITUDE : 0.75mm, 10CYCLES FOR 3AXIAL DIRECTIONS	① NO ELECTRICAL DISCONTINUITY OF 1μs ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	X	-
SHOCK	490 m/s², DURATION OF PULSE 11ms AT 3TIMES FOR 3 BOTH AXIAL DIRECTIONS		X	-
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2℃, 90 ~ 95%, 96h	① CONTACT RESISTANCE: SIGNAL CONTACT : 70mΩ MAX POWER CONTACT : 40mΩ MAX ② INSULATION RESISTANCE: SIGNAL CONTACT : 100MΩ MIN POWER CONTACT : 1000MΩ MIN ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS △1	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +125℃, TIME 30 → 30 min UNDER 5 CYCLES (RELOCATION TIME TO CHAMBER: WITHIN 2~3MIN)		X	-
COLD	EXPOSED AT -55℃, 96h	① CONTACT RESISTANCE: SIGNAL CONTACT : 70mΩ MAX POWER CONTACT : 40mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	X	-
DRY HEAT	EXPOSED AT 125℃, 96h		X	-
SULFUR DIOXIDE	EXPOSED AT 25±2℃, 75±5%RH, 25 PPM FOR 96h (TEST STANDARD: IEC 68)	① NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR ② CONTACT RESISTANCE: SIGNAL CONTACT : 70mΩ MAX POWER CONTACT : 40mΩ MAX	X	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP : 260℃ MAX REFLOW TMP : 220℃ MIN FOR 60sec 2) SOLDERING IRONS : 360℃ MAX FOR 5sec	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3℃ FOR IMMERSION DURATION, 3sec	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED	X	-

REFERENCE DRAWING

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
(NOTE1) : INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. *(NOTE2) : "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.* *(NOTE3) : WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70% OF HE RATED CURRENT VALUE.* *UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512*	J.H.PARK 19.08.22	J.H.PARK 19.08.22	W.S.YOON 19.08.23	B.H.AN 19.08.23	ENG 20.03.20 DEPT

NOTE QT: QUALIFICATION TEST, AT: ASSURANCE TEST, X: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. KP27F-170S/4-0.5SV(800)	
CODE NO.(OLD) CL	DRAWING NO. ELC4-632773	CODE NO. CL 6547-0012-4-800	1/1