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

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	−40℃ TO +130℃	STORAGE TEMPERATURE RANGE	−30℃ TO +65℃
	VOLTAGE	600V AC	APPLICABLE CONTACT	−
	CURRENT	AWG#18:9A, AWG#20:6A AWG#22:5A, AWG#24:3A	APPLICABLE CONNECTOR	−

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	AC 20mV MAX for 100mA	10mΩ MAX.	○	−
INSULATION RESISTANCE	DC500 V FOR 1min	1,000 MΩ MIN.	○	−
VOLTAGE PROOF	AC 1,600V FOR 1 min.	NO Flashover or Breakdown	○	−
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	5 TIMES INSERTION AND EXTRACTION.	①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	−
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 18N MAX. EXTRACTION FORCE: 30N MIN.(AWG#18) 20N MIN.(AWG#24)	○	−
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE 0.75 mm, AT 5min FOR, Each of axis(X,Y,Z) 10cycles.	①NO ELECTRICAL DISCONTINUITY OF 1 μs min ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS. ③CONTACT RESISTANCE: 30 mΩ MAX.	○	−
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		○	−
ENVIRONMENTAL CHARACTERISTICS				
HUMIDITY (STEADY STATE)	EXPOSED AT 40±2 ℃, 90~95 %, 96h.	①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 500 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	−
RAPID CHAGE OF TEMPERATURE	TEMPERATURE −55→ 5~+35→+85→+15~35℃ TIME 30→ 5min max → 30 → 5min max UNDER 5 CYCLES.		○	−
DRY HEAT	TEMPERATURE : 105±2℃ DURATION : 48Hr	①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	−
DRY COLD	TEMPERATURE : −40±2℃ DURATION : 48Hr		○	−
HYDROGEN SULFIDE	EXPOSED IN 3±1 PPM FOR 96 h. (TEST STANDARD : JEIDA−39)	①CONTACT RESISTANCE: 20 mΩ MAX. ②NO BREAKDOWN FOR ELECTRIC PERFORMANCE	○	−
RESISTANCE OF SOLDERING HEAT	①FOR REFLOW SOLDERING TEMPERATURE: 250 ℃ , 10 sec MAX. 220 ℃ AND OVER, 60 sec MAX. ②FOR MANUAL SOLDERING TEMPERATURE: 250±5℃, 3 sec MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	○	−
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 250℃ FOR IMMERSION DURATION, 5 sec.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	○	−

REMARKS

NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.

REFERENCE DRAWING

UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
S.H.GU	S.H.GU	Y.S.HA	T.S.KANG	ENG
15.05.08	15.05.08	15.05.08	15.05.09	16.07.13 DEPT

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

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. KN27−1S−H(835)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4−632126−00	CL 6653−0001−8−835	1/1