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	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△	2	RE-6-0840	C.J.S	K.T.S	17.03.07	△					
△	1	RE-6-0843	C.J.S	K.T.S	17.03.09	△					

**APPLICABLE STANDARD**

RATING	OPERATING TEMPERATURE RANGE	-40℃ TO +130℃	STORAGE TEMPERATURE RANGE	-30℃ TO +65℃
	VOLTAGE	△ <sub>2</sub> 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
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**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. △ <sub>1</sub>	INSERTION FORCE: 18N MAX. EXTRACTION FORCE 30N MIN.(AWG#18) 20N MIN.(AWG#20~24)	○	-
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 <sup>2</sup> 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: 260℃, 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	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. △ <sub>1</sub>	S.H.GU 15.05.08	S.H.GU 15.05.08	Y.S.HA 15.05.08	T.S.KANG 15.05.09	
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.					

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

HIROSE KOREA CO.,LTD.	<b>SPECIFICATION SHEET</b>	PART NO. <b>KN27-1S-H(835)</b>
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CODE NO.(OLD) CL	DRAWING NO. ELC4-632126-00	CODE NO. CL 6653-0001-8-835	1/1
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