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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	RE-5-2715	K.C.J	A.B.H	21.11.29	△					
△	2	RE-5-3139	K.C.J	Y.W.S	24.04.02	△					

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55℃ ~ +85℃ (NOTE1)	STORAGE TEMPERATURE RANGE	-10℃ ~ +50℃
	VOLTAGE	AC 125V	OPERATING OR STORAGE HUMIDITY RANGE	85% MAXIMUM (NON-CONDENSING)
	CURRENT	3A MAX		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	X	X
MARKING	CONFIRMED VISUALLY		X	X

ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE IEC60512-2-1	100mA(DC or 1000Hz)	INITIALLY 20mΩ MAXIMUM(NOTE 2)	X	-

MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION [OFFICE ENVIRONMENT] EIA364B class 1.1	10 TIMES INSERTION AND WITHDRAWAL	① CONTACT RESISTANCE: AFTER TEST 30mΩ MAXIMUM ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	X	-
INSERTION FORCE	MEASURED BY APPLICABLE CONNECTOR IN 5mm/min	10N MAX	X	-
WITHDRAWAL FORCE		2N MIN	X	-
VIBRATION AND HIGH FREQUENCY IEC60512-6-4	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 MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS	X	-
SHOCK IEC60512-6-3	ACCELERATION 490m/s ² STANDARD HOLDING TIME 11ms, SEMI-SINE WAVE FOR 3 TIMES IN 3 DIRECTIONS, TOTAL 18 TIMES.	③ CONTACT RESISTANCE: AFTER TEST 30mΩ MAXIMUM	X	-

ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE IEC60512-11-4	25 CYCLES (1CYCLE = 1HOUR) TEMPERATURE : -55℃ TO +85℃	① CONTACT RESISTANCE: AFTER TEST 30mΩ MAXIMUM ② NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	X	-
DRY HEAT IEC60512-11-9	EXPOSED AT 85℃ FOR 250 HOURS		X	-
COLD IEC60512-11-10	EXPOSED AT -55℃ FOR 48 HOURS		X	-
DAMP HEAT(STEADY STATE) IEC60512-11-12	EXPOSED AT 85℃, 85%RH, 240 HOURS		X	-
CORROSION SALT MIST MIL-STD-202 Method 101	EXPOSED AT 35±2℃, 5% SALT WATER SPRAY FOR 48 HOURS		X	-
RECOMMENDED TEMPERATURE PROFILE	FOR REFLOW SOLDERING TEMPERATURE: 250℃, 10 SEC MAX 220℃ AND OVER, 60 SEC MAX	NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245℃ FOR IMMERSION DURATION, 3 SEC.	SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMersed.	X	-

REFERENCE

REMARKS	CONDITIONS FOR TESTING	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
(NOTE 1) : INCLUDE THE TEMPERATURE RISE BY CURRENT (NOTE 2) : CONTACT RESISTANCE INCLUDES CONDUCTOR RESISTANCE UNLESS OTHERWISE SPECIFIED. THE TEST SHOULD BE DONE UNDER TEMP 15 TO 35℃. AIR PRESSURE 86 TO 106kPA, RESLATIVE HUMIDITY 25 TO 85%.		K.G.YANG 17.09.27	K.G.YANG 17.09.27	B.H.AN 17.09.28	H.C.SONG 17.09.28	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;"> ENG 24.04.02 DEPT </div>

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

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. KP21A-1S(800)
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CODE NO.(OLD) CL	DRAWING NO. ELC3-632371	CODE NO. CL 6515-0002-6-800	1 1
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