



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!




Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10 °C T0 + 60 °C (NOTES 2)																																																							
RATING	OPERATING TEMPERATURE RANGE	-45 °C T0 +125 °C (NOTES 1)																																																									
	VOLTAGE	50 V AC		DF12# (3. 0) -*DS-0. 5V (81)																																																							
	CURRENT	0. 3 A		DF12# (3. 0) -*DS-0. 5V (86)																																																							
SPECIFICATIONS																																																											
ITEM	TEST METHOD		REQUIREMENTS																																																								
CONSTRUCTION																																																											
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.																																																								
MARKING	CONFIRMED VISUALLY.		<table border="1"> <tr> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td>X</td> </tr> </table>				X	X		X	X																																																
	X	X																																																									
	X	X																																																									
ELECTRIC CHARACTERISTICS																																																											
CONTACT RESISTANCE	100 m A (DC OR 1000 HZ).		50 mΩ MAX.																																																								
INSULATION RESISTANCE	100 V DC		500 MΩ MAX																																																								
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.																																																								
MECHANICAL CHARACTERISTICS																																																											
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		<table border="1"> <tr> <th rowspan="2">SIGNAL</th> <th colspan="2">INSERTION FORCE (N) MAX</th> <th colspan="2">WITHDRAWAL FORCE (N) MIN</th> </tr> <tr> <th>19.8</th> <th>1.5</th> <th></th> <th></th> </tr> <tr> <td>10</td> <td>21.3</td> <td>2.1</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>23.4</td> <td>2.6</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>27.0</td> <td>3.4</td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>27.6</td> <td>3.6</td> <td></td> <td></td> </tr> <tr> <td>32</td> <td>28.0</td> <td>4.0</td> <td></td> <td></td> </tr> <tr> <td>36</td> <td>30.6</td> <td>4.2</td> <td></td> <td></td> </tr> <tr> <td>40</td> <td>34.2</td> <td>5.0</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>38.0</td> <td>6.0</td> <td></td> <td></td> </tr> <tr> <td>60</td> <td>45.0</td> <td>7.4</td> <td></td> <td></td> </tr> </table>			SIGNAL	INSERTION FORCE (N) MAX		WITHDRAWAL FORCE (N) MIN		19.8	1.5			10	21.3	2.1			14	23.4	2.6			20	27.0	3.4			30	27.6	3.6			32	28.0	4.0			36	30.6	4.2			40	34.2	5.0			50	38.0	6.0			60	45.0	7.4		
SIGNAL	INSERTION FORCE (N) MAX		WITHDRAWAL FORCE (N) MIN																																																								
	19.8	1.5																																																									
10	21.3	2.1																																																									
14	23.4	2.6																																																									
20	27.0	3.4																																																									
30	27.6	3.6																																																									
32	28.0	4.0																																																									
36	30.6	4.2																																																									
40	34.2	5.0																																																									
50	38.0	6.0																																																									
60	45.0	7.4																																																									
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRactions.		① CONTACT RESISTANCE: 50 mΩ MAX ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																																								
VIBRATION	FREQUENCY 10 TO 55 HZ, SINGLE AMPLITUDE 0.75 mm, AT 2h, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																																								
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																																								
ENVIRONMENTAL CHARACTERISTICS																																																											
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 →15 TO 35 → 125 → 15 TO 35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																																								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																																								
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION																																																								
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION																																																								
HEAT RESISTANCE OF SOLDERING	[RECOMMENDED TEMPERATURE PROFILE] 《SOLDERING AREA》 MAX260 °C, 220 °C FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180 °C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDERING CONDITION] SOLDERING IRON TEMPERATURE 360 °C SOLDERING TIME : WITHIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.																																																								
REMARKS																																																											
NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.																																																											
NOTE2: STORAGE IS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.																																																											
APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY.																																																											
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.																																																											
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																																																							
△																																																											
			APPROVED	06.01.30																																																							
			CHECKED	06.01.30																																																							
			DESIGNED	06.01.30																																																							
			DRAWN	06.01.27																																																							
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-160394-09																																																								
		SPECIFICATION SHEET		PART NO.																																																							
		HIROSE ELECTRIC CO., LTD.		CODE NO.																																																							
		CL537		1/1																																																							