



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

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In case that the application demands a high level of reliability, such as automotive,  
please contact a company representative for further information.

APPLICABLE STANDARD		-25 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
RATING	OPERATING TEMPERATURE RANGE	AC 100 V, DC 140 V			—	—
	VOLTAGE	2 A			APPLICABLE CABLE	φ7
CURRENT						
<b>SPECIFICATIONS</b>						
ITEM	TEST METHOD	REQUIREMENTS		QT	AT	
<b>CONSTRUCTION</b>				ACCORDING TO DRAWING.		
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.					
MARKING	CONFIRMED VISUALLY.					
<b>ELECTRIC CHARACTERISTICS</b>						
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A		10 mΩ MAX.	X	X	
INSULATION RESISTANCE	100 V DC.		1000 MΩ MIN.	X	X	
VOLTAGE PROOF	300 V AC, FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X	
<b>MECHANICAL CHARACTERISTICS</b>						
CONTACT INSERTION AND WITHDRAWAL FORCES	— BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : — N MIN.		—	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 55 N MAX. LOCKING DEVICE WITH LOCK : — N MAX.		X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 15 mΩ MAX.		X	—
VIBRATION	FREQUENCY: 10 TO 55 HZ, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2H, FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
SHOCK	490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 5 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T <sup>(1)</sup> → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.		① INSULATION RESISTANCE: 1000 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION RUIN THE FUNCTION.		X	—
DRY HEAT	EXPOSED AT + 85 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
COLD	EXPOSED AT - 55 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE: + 380±10°C, FOR SOLDERING DURATION, 3 <sup>+</sup> 0 <sup>-</sup> s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, + 350±10°C FOR SOLDERING DURATION, 2 TO 3 s.		WETTING ON SOLDER SURFACE, NO SOLDER CLUSTER.		X	—
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
REMARK	NOTE (1) R/T : ROOM TEMPERATURE					
	Unless otherwise specified, refer to JIS C 5402.					
	Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-041531-73		
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<b>HRS</b>		SPECIFICATION SHEET		PART NO.	HR10A-10TPA-12P (73)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL110-0447-8-73	
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