



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		1 ▷ TIA/EIA-568-A CAT5		STORAGE TEMPERATURE RANGE	3 ▷ -25 °C TO 60 °C		
RATING	OPERATING TEMPERATURE RANGE	2 ▷ -25 °C TO 80 °C		OPERATING RANGE	95 % MAX		
	VOLTAGE	125 V AC		OPERATING HUMIDITY RANGE	95 % MAX		
	CURRENT	1 A		APPLICABLE CABLE	-		
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD	REQUIREMENTS			QT	AT	
<b>CONSTRUCTION</b>		VISUALLY AND BY MEASURING INSTRUMENT.			X	X	
GENERAL EXAMINATION		CONFIRMED VISUALLY.			X	X	
MARKING					X	X	
<b>ELECTRIC CHARACTERISTICS</b>							
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz AC).	50 mΩ MAX.			X	X	
INSULATION RESISTANCE	100 V DC. 500 V AC FOR 1 min.	100 MΩ MIN. NO FLASHOVER OR BREAKDOWN.			X	X	
VOLTAGE PROOF (CONTACT TO CONTACT)	1500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.			X	X	
VOLTAGE PROOF (CONTACT TO SHIELD)	MEASURED MINIMUM NEXT LOSS FOR EACH PAIR COMBINATION (1.2-3.6) AT 100 MHz.	40 dB MIN.			X	-	
<b>MECHANICAL CHARACTERISTICS</b>							
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRactions.	1) CONTACT RESISTANCE : 70 mΩ MAX 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 1 OCTAVE / min, 3 AXIAL DIRECTIONS, 10 CYCLES EACH.	1) NO ELECTRICAL DISCONTINUITY OF 5 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-	
SHOCK	490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.				X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
DAMP HEAT CYCLIC	EXPOSED AT 40 °C, 90 TO 95 %, 500 h	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) INSULATION RESISTANCE : 1 MΩ MIN. (AT HIGH HUMIDITY) 10 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55±3 → 15 TO 35 → 85±2 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.	1) CONTACT RESISTANCE : 70 mΩ MAX 2) INSULATION RESISTANCE : 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART			X	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO HEAVY CORROSION.			X	-	
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 5 ± 1 S.	NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.			X	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 ± 5 °C FOR IMMERSION, DURATION MAX 3 S.	MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.			X	-	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
REMARK							
1 ▷ APPLICABLE PLUG CONNECTOR: TM21P-88P.		APPROVED	EJWAKATSUKI	13.10.28			
2 ▷ THE OPERATION TEMPERATURE INCLUDES THE TEMPERATURE RISE BY CURRENT CARRYING, INCLUDING PACKING MATERIALS.		CHECKED	EJWAKATSUKI	13.10.28			
3 ▷ STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS FOLLOWING THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING. UNLESS OTHERWISE SPECIFIED, REFER TO JIS		DESIGNED	MITTANO	13.10.25			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-123343-03				
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		TM11R-5M2-88(01)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL222-2906-2-01	
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