



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!



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APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE	OPERATING HUMIDITY RANGE	STORAGE TEMPERATURE RANGE	STORAGE HUMIDITY RANGE
△	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)(2)		-10 °C TO 60 °C (3)	
	OPERATING HUMIDITY RANGE	RH 85 % MAX (2)(4)		RH 70 % MAX (3)(4)	
RATING		VOLTAGE	60 V AC	CURRENT	0.5 A

SPECIFICATIONS

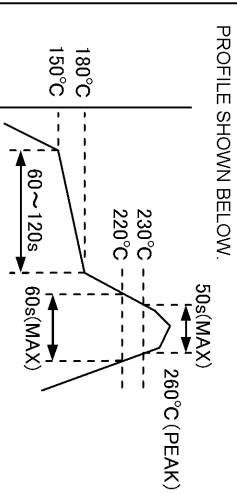
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	80 mΩ MAX (5)	X	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	
VOLTAGE PROOF	200 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	

MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE: 10.5 N MAX WITHDRAWAL FORCE: 1.05 N MIN.	X	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTATIONS.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPITUDE : 0.75 mm, FOR 2 h IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		X	

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.	X	
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +5~+35 → +85 → +5~+35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.		X	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.	X	
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)	② NO DERECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. ③ NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	X	

RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW.  2) SOLDERING IRONS: 360°C MAX. FOR 5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.	X	
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SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3 sec.		X		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△	2	DIS-F-004353	KN, SHI BUYA	HT, YAMAUCHI	09.12.15

REMARKS				
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.				
(2) OPERATING TEMPERATURE SHOULD BE 55 TO 40°C WHEN HUMIDITY EXCEEDS 80% RH.				
(3) *STORAGE* MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.				
(4) THERE MUST NOT BE DEWFALL.				
(5) DON'T INCLUDE CONDUCTOR RESISTANCE OF THE CABLE OF THE COMBINATION CONNECTOR.				
Unless otherwise specified, refer to JIS-C-5402.				
Note	QT: Qualification Test	AT: Assurance Test	X: Applicable Test	

HRS		Specification Sheet		Part No.		FX16-21S-0.5SH	
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL575-3411-5-00		△	
		DRAWING NO.		ELC4-157339-00		1/1	