



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		STORAGE TEMPERATURE RANGE	
RATING	OPERATING TEMPERATURE RANGE -30 °C TO +85 °C(NOTE1)	TEMPERATURE RANGE	-10 °C TO +60 °C
VOLTAGE	50 V AC	APPLICABLE CONNECTORS	DF21-30P-0.6SD DF21-30P-0.6SD-GND
CURRENT	AWG40:0.3A AWG36:0.5A	APPLICABLE CABLE	THIN COAXIAL RIBBON CABLE

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
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	100 mΩ MAX.	X	-
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	-
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-

MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	-

ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→5 TO 35 → 85→5 TO 35°C TIME 30→2 TO 3 → 30→2 TO 3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h (TEST STANDARD: JEIDA-39)	NO HEAVY CORROSION.	X	-
RESISTANCE TO SOLDERING HEAT	① FOR REFLOW SOLDERING: TEMPERATURE: 240 °C, 3 sec MAX. 200 °C AND OVER, 30 sec MAX. ② FOR MANUAL SOLDERING: TEMPERATURE: 350 ± 5 °C, 3 sec MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3 sec.	SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARKS				
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.				
NOTE 2: IN CASE OF APPLYING HIGHER CURRENT ON CERTAIN PATTERN OF FCC, INDIVIDUAL EXAMINATION IS REQUIRED.				
Unless otherwise specified, refer to JIS-C-5402.				
Note	QT: Qualification Test	AT: Assurance Test	X: Applicable Test	
	DRAWING NO.	ELC4-163487-02		

HRS		DRAWING NO.	
SPECIFICATION SHEET	PART NO.	DF21-30S-0. 6V (56)	
HIROSE ELECTRIC CO., LTD.	CODE NO.	CL687-0003-0-56	△