



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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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				

APPLICABLE STANDARD			
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE1)	STORAGE TEMPERATURE RANGE
	VOLTAGE	150 V AC	APPLICABLE CONTACT
	CURRENT	1 A	APPLICABLE CONNECTOR
			APPLICABLE CABLE

-10 °C TO +60 °C		DF13/13A-20DP-1.25V (01)	
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SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT		
CONSTRUCTION						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○		
MARKING	CONFIRMED VISUALLY		○	○		
ELECTRICAL CHARACTERISTICS						
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	30 mΩ MAX.	○			
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX. mA(DC OR 1000 Hz).					
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	○			
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○			
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE — N MAX. EXTRACTION FORCE — N MIN.				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.				
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTION.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○			
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, - m/s ² AT 2 h, 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs.	○			
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② CONTACT RESISTANCE: 30 mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○			
ENVIRONMENTAL CHARACTERISTICS						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 15~35 → +85 → 15~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 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 ~ 95 %, 96 h.		○			
CORROSION, SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION.	○			
HYDROGEN SULPHIDE	EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38)	① CONTACT RESISTANCE mΩ MAX. ② NO HEAVY CORROSION.				
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION.	○			
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION, 5 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	○			
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230 ± 10 °C FOR IMMERSION DURATION, 3s.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	○			
REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE 1. INCLUDE THE TEMPERATURE RISING BY CURRENT.						
FOR REFERENCE ONLY						
Subject to change without notice						
Unless otherwise specified, refer to MIL-STD-1344.						
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test						

TO

HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

PART NO. **DF13-20DS-1.25DSA (01)**

CL

ELC4-160785-01

PART NO.

CL 536 - 0625 - 0 - 01

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FORM No. 231-1

COUNT DESCRIPTION OF REVISIONS		BY		CHKD		DATE	
1							
2							
3							
4							
5							
6							
7							
8							

DF13-20DS-1-25DSA/V MADE IN JAPAN HRS ヒロセ電機 空チューブ型収容構造力下さい 1 2 3 4 5 6 7 8

510.5

MARKING FACE

NOTES1: NUMBER OF CONNECTORS PER TUBE SHALL BE 31.

2: THESE CONNECTORS SHALL BE ON SALED IN ACCORDANCE WITH THE MULTIPLE QUANTITY OF 31.

FOR REFERENCE ONLY

Subject to change without notice

DRAWING NO.		PART NO.		STOPPER (GREEN)	
EDC3-160785-02	DF13-20DS-1-25DSA(50)				

POLYSTYRENE ELECTROSTATIC PROTECTION (PURPLE)		SBR		STOPPER (GREEN)	
NO	MATERIAL	FINISH	REMARKS	NO	MATERIAL
1	POLYSTYRENE	FINISH	REMARKS	3	SBR

DRAWN		CHECKED		APPROVED	
S. HAO					

HRS		H. ROSE ELECTRIC CO., LTD.	
CL536-0625-0-50			