

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	150 V AC	APPLICABLE CONTACT	—
	CURRENT	1 A	APPLICABLE CONNECTOR	DF13/13A-20DP-1.25V (01)
			APPLICABLE CABLE	

### SPECIFICATIONS


ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	<input type="checkbox"/>	<input type="checkbox"/>
MARKING	CONFIRMED VISUALLY		<input type="checkbox"/>	<input type="checkbox"/>

<b>ELECTRICAL CHARACTERISTICS</b>				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	30 mΩ MAX.	<input type="checkbox"/>	<input type="checkbox"/>
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX. mA(DC OR 1000 Hz).		<input type="checkbox"/>	<input type="checkbox"/>
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	<input type="checkbox"/>	<input type="checkbox"/>
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN	<input type="checkbox"/>	<input type="checkbox"/>

<b>MECHANICAL CHARACTERISTICS</b>				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE — N MAX. EXTRACTION FORCE — N MIN.	<input type="checkbox"/>	<input type="checkbox"/>
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.	<input type="checkbox"/>	<input type="checkbox"/>
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTION.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm. - m/s <sup>2</sup> AT 2 h, 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs.	<input type="checkbox"/>	<input type="checkbox"/>
SHOCK	490 m/s <sup>2</sup> 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.	<input type="checkbox"/>	<input type="checkbox"/>

<b>ENVIRONMENTAL CHARACTERISTICS</b>				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 15~35 → +85 → 15~35 °C TIME 30 → 2~3 → 30 → 2~3min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.		<input type="checkbox"/>	<input type="checkbox"/>
CORROSION, SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE - mΩ MAX. ② NO HEAVY CORROSION.	<input type="checkbox"/>	<input type="checkbox"/>
HYDROGEN SULPHIDE	EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38)	① CONTACT RESISTANCE mΩ MAX. ② NO HEAVY CORROSION.	<input type="checkbox"/>	<input type="checkbox"/>
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE - mΩ MAX. ② NO HEAVY CORROSION.	<input type="checkbox"/>	<input type="checkbox"/>
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION, 5 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	<input type="checkbox"/>	<input type="checkbox"/>
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230 ± 10 °C FOR IMMERSION DURATION, 3s.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS NOTE 1. INCLUDE THE TEMPERATURE RISING BY CURRENT. <b>FOR REFERENCE ONLY</b> Subject to change without notice Unless otherwise specified, refer to MIL-STD-1344. Note QT:Qualification Test AT Assurance Test <input type="checkbox"/> Applicable Test	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>F. Isai</i>	<i>F. Isai</i>	<i>K. Akiyama</i>	<i>K. Karayama</i>	
	13.6.23	13.6.23	13.6.23	13.6.23	

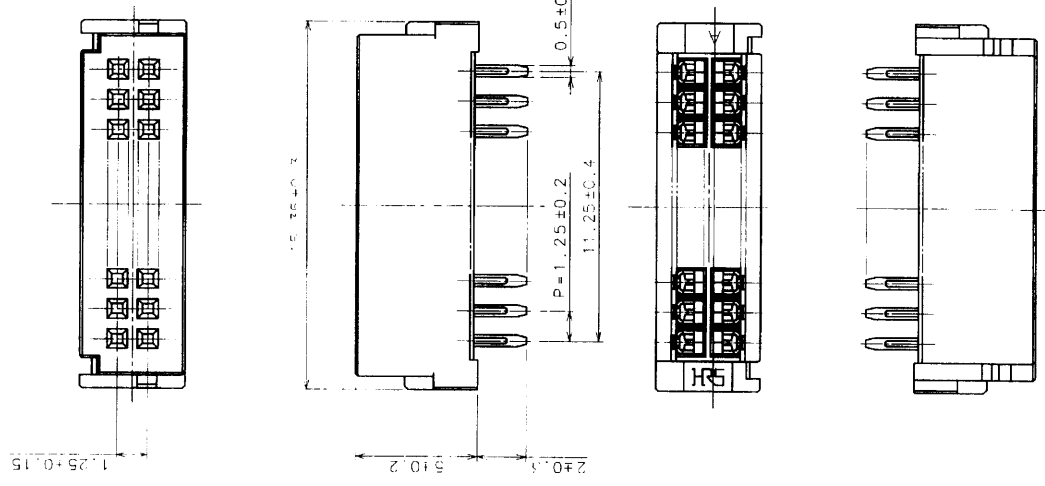
<b>HRS</b> HIROSE ELECTRIC CO., LTD.	<b>SPECIFICATION SHEET</b>	PART NO. DF13-20DS-1.25DSA (01)
CODE NO (CLD) CL	DRAWING NO ELC4-160785-01	PART NO CL 536 - 0625 - 0 - 01
		1 1

TO



1	2	3	4	5	6	7	8
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MATED CONNECTORS

DF13/DF13A-20DP-1.25V(01)

DF13-20DS-1.25DSA(01)

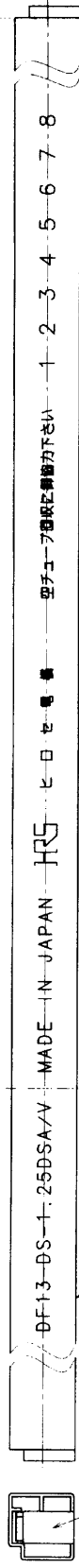
NOTE 1: THROUGH HOLE DIA. ON BOARD:  $\phi 0.6^{+0.05}$

1	POLYAMIDE	REF: (NATURAL)	DL94V-0	2	PHOSPHOR	CONTACT AREA: GOLD PLATED
NO	MATERIAL	FINISH	REMARKS	NO	MATERIAL	SOLDERING AREA: TIN PLATED
CODE NO. (OLD)		DRAWN		DESIGNED	CHECKED	APPROVED
		S.H.		1.7.1980	James K. Kalyan	
		P.S.		1.7.1980	6.12.78	6.15
DRAWING NO.		PART NO.		HRS		
EDC3-160785-01		DF13-20DS-1.25DSA(01)		USA		
SCALE		UNITS		CL 536-0625-0-01		
5:1		MM				
FORM NO. 1229						

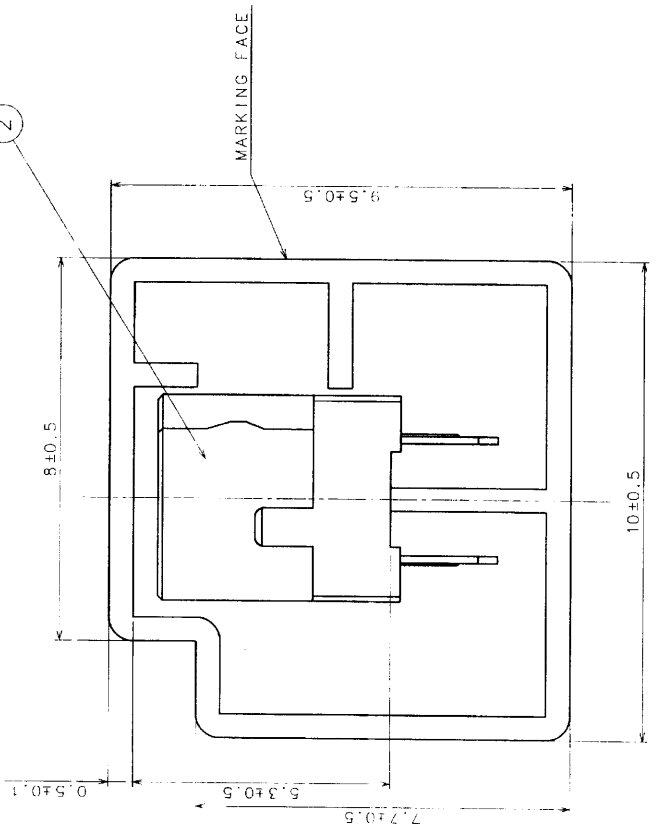
TO

5	6	7	8
QUANTITY	DESCRIPTION	DATE	BY

510.5



A (10:1)



NOTES: NUMBER OF CONNECTORS PER TUBE SHALL BE 31.  
 THESE CONNECTORS SHALL BE ON SALED IN ACCORDANCE WITH THE MULTIPLE QUANTITY OF 31.

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2	DF13-20DS-1-25DSA(01)	3	SBR	STOPPER (GREEN)							
1	POLYSTYRENE ELECTROSTATIC PROTECTION (PURPLE)	3									
NO.	MATERIAL	FINISH	REMARKS	NO.	MATERIAL	DESIGNED	CHECKED	APPROVED	FINISH	REMARKS	
CODE NO. (OLD)						DF13-20DS-1-25DSA(50)	S. H. A. C.	Y. S. H. I. M.	K. K. A. Y. A. H. A. R. A.	198. 6. 12 '98. 6. 15	
DRAWING NO.		PART NO.		STOPPER (GREEN)		APPROVED		FINISH		REMARKS	
EDC3-160785-02		DF13-20DS-1-25DSA(50)				Y. S. H. I. M.		K. K. A. Y. A. H. A. R. A.		198. 6. 12 '98. 6. 15	
SCALE 5:1		UNITS mm		DRAWING NO.		PART NO.		STOPPER (GREEN)		APPROVED	
				EDC3-160785-02		DF13-20DS-1-25DSA(50)				Y. S. H. I. M.	
				UNITS mm		CODE NO.		FINISH		REMARKS	
						CL536-0625-0-50				198. 6. 12 '98. 6. 15	



H. ROSE ELECTR. & CO., LTD.