

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		-35°C TO +85°C(NOTE 1) 20% TO 80%(NOTE 2)		STORAGE TEMPERATURE RANGE HUMIDITY RANGE		-10°C TO +60°C(NOTE 3) 40% TO 70%(NOTE 2)(NOTE 3)		
OPERATING TEMPERATURE RANGE				TEMPERATURE RANGE				
HUMIDITY RANGE				HUMIDITY RANGE				
RATING		100V AC / DC		APPLICABLE CONNECTOR		DF81※-50S-0.4H(##)		
CURRENT		AWG#34,36 : 0.3(MAX0.8A) AWG#40 : 0.25A AWG#42 : 0.2A AWG#44 : 0.15A AWG#46 : 0.1A		APPLICABLE CABLE		THIN COAXIAL CABLE : AWG#36~AWG#46 / DISCRETE CABLE : AWG#34~40(Jacket : φ 0.4MAX)		
<b>SPECIFICATIONS</b>								
ITEM		TEST METHOD		REQUIREMENTS		QT	AT	
<b>CONSTRUCTION</b>								
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X	
MARKING		CONFIRMED VISUALLY.				X	X	
<b>ELECTRIC CHARACTERISTICS</b>								
CONTACT RESISTANCE		100mA (DC OR 1000 Hz).		CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.		X	-	
INSULATION RESISTANCE		100V DC.		50MΩ MIN.		X	-	
VOLTAGE PROOF		250V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-	
<b>MECHANICAL CHARACTERISTICS</b>								
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS, x 10 CYCLE.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-	
SHOCK		490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>								
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 →+85 °C TIME 30 → 30 min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.)		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② INSULATION RESISTANCE: 25 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.				X	-	
SULFUR DIOXIDE GAS		EXPOSED IN 25±5PPM, 25±2°C, 75%RH, 96h.		NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-	
RESISTANCE TO SOLDERING HEAT		①BONDING TEMPERATURE: 270°C MAX. 5 sec MAX 200°C MIN. 30 sec MAX ②MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.				X	-	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)		SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.		X	-	
COUNT		DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		
REMARKS		NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT NOTE2: NON CONDENSING NOTE3: THE TERM "STORAGE" REFERS TO PRODUCTS STORED FOR A LONG PERIOD PRIOR TO MOUNTING AND USE. THE OPERATING TEMPERATURE AND HUMIDITY RANGE COVERS THE NON-CONDUCTING CONDITION OF CONNECTORS AFTER BOARD MOUNTING AND THE TEMPORARY STORAGE CONDITIONS OF TRANSPORTATION, etc NOTE4:IT COULD BE VARIED DEPENDING ON THE CONDITIONS. *MAX IS RATING CURRENT AS ONLY TWO OF THEM TURN ON ELECTRICITY. NOTE5: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CABLE IS NOT INCLUDED. Unless otherwise specified, refer to JIS C 5402,IEC60512.		APPROVED		MH, YAMANE		13.11.06
				CHECKED		MH, TSUCHIDA		13.11.05
				DESIGNED		AH, MIYAZAKI		13.11.01
				DRAWN		AH, MIYAZAKI		13.11.01
Note		QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-351810-02		
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		DF81D-50P-0.4SD (52)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL662-8122-7-52		
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