



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

APPLICABLE STANDARD				STORAGE TEMPERATURE RANGE		-10°C TO +60°C(NOTES 3)		
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C(NOTES 1)		STORAGE HUMIDITY RANGE	40% TO 70%(NOTES 2)(NOTES 3)			
	HUMIDITY RANGE	20% TO 80%(NOTES 2)						
CURRENT	VOLTAGE	50V AC / DC		APPLICABLE CONNECTOR	DF80※-50S-0.5V(##)			
	CURRENT	0.5 A/PI/N (NOTE4)			THIN COAXIAL CABLE (AWG#40~AWG#46) / DISCRETE CABLE (AWG#32~36)			
<b>SPECIFICATIONS</b>								
ITEM	TEST METHOD			REQUIREMENTS				
<b>CONSTRUCTION</b>		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.				
GENERAL EXAMINATION	CONFIRMED VISUALLY.							
<b>ELECTRIC CHARACTERISTICS</b>								
CONTACT RESISTANCE	100m A (DC OR 1000 Hz).		CONTACT ACT.:80mΩ MAX. SHIELDING:80mΩ MAX.		X			-
INSULATION RESISTANCE	100V DC.		50MΩ MIN.		X			-
VOLTAGE PROOF	150V 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.		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.		① NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X			-
<b>ENVIRONMENTAL CHARACTERISTICS</b>								
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85 °C 30 → 30 min TIME 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.		X		-	
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X			-
SULFUR DIOXIDE GAS	EXPOSED IN 25PPM, 25°C, 75%RH, 96h.		NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.		X			-
RESISTANCE TO SOLDERING HEAT	① BONDING TEMPERATURE: 270°C MAX. 5 sec MAX 200°C MIN. 30 sec MAX ② MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		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		DATE	
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT NOTE2: NON CONDENSING NOTES: 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: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CASE IS NOT INCLUDED. RATED CURRENT VARIES DEPENDING ON CABLES ASSEMBLED. Unless otherwise specified, refer to JIS C 5402, IEC60512.								
Note		QT:Qualification Test	AT:Assurance Test	X:Applicable Test	DRAWING NO.		ELC4-351373-02	
		SPECIFICATION SHEET		PART NO.		DF80D-50P-0.5SD (52)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL662-8020-7-52		
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