

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 TEMPERATURE RANGE	40% TO 70%(NOTES 2)(NOTES 3)		
	HUMIDITY RANGE	20% TO 80%(NOTES 2)			HUMIDITY RANGE		
CURRENT	VOLTAGE	30V AC		APPLICABLE CONNECTOR		DF56※:30S-0.3V(##)	
		AWG#42:0.2A AWG#44:0.15A (NOTES 4) AWG#46:0.1A			APPLICABLE CABLE	THIN COAXIAL CABLE (AWG#42~AWG#46)	
SPECIFICATIONS							
ITEM	TEST METHOD			REQUIREMENTS			
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
GENERAL EXAMINATION	CONFIRMED VISUALLY.						
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100m A (DC OR 1000 HZ).			CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.		X	
INSULATION RESISTANCE	100V DC.			50MΩ MIN.		X	
VOLTAGE PROOF	100V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.		X	
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION		20TIMES 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 x10 CYCLE.			① NO ELECTRICAL DISCONTINUITY OF 1 μs.		X	
SHOCK	490 ms ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	
ENVIRONMENTAL CHARACTERISTICS							
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.		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 10-15 PPM 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	① BONDING TEMPERATURE: 270°C MAX.:5 sec MAX 200°C MIN.:30 sec MAX ② MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.			SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.		X	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)					-	
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED		DATE	
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: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CASE IS NOT INCLUDED. Unless otherwise specified, refer to JIS C 5402,IEC60512.						
Note Q1:Qualification Test		AT: Assurance Test X:Applicable Test		DRAWING NO.		ELC4-344841-01	
HRS		SPECIFICATION SHEET		PART NO.		DF56-30P-0.3SD (51)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL662-5617-3-51	
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