

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(NOTE 3)	
OPERATING TEMPERATURE RANGE		-35°C TO +85°C(NOTE 1)		TEMPERATURE RANGE		40% TO 70%(NOTE 2)(NOTE 3)	
OPERATING HUMIDITY RANGE		20% TO 80%(NOTE 2)		STORAGE HUMIDITY RANGE			
RATING		100V AC/DC		APPLICABLE CONNECTOR		DF81※:40P-0.4SD(##)	
CURRENT		AWG#34,36 : 0.3(MAX0.8A)					
		AWG#40 : 0.25A					
		AWG#42 : 0.2A					
		AWG#44 : 0.15A					
		AWG#46 : 0.1A					
<b>SPECIFICATIONS</b>							
ITEM				TEST METHOD		REQUIREMENTS	
<b>CONSTRUCTION</b>							
GENERAL EXAMINATION				VISUALLY AND BY MEASURING INSTRUMENT.			
MARKING				CONFIRMED VISUALLY.			
<b>ELECTRIC CHARACTERISTICS</b>							
CONTACT RESISTANCE				100m A (DC OR 1000 Hz): CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.			
INSULATION RESISTANCE				100V DC. 50MΩ MIN.			
VOLTAGE PROOF				250V AC FOR 1 min. NO FLASHOVER OR BREAKDOWN.			
<b>MECHANICAL CHARACTERISTICS</b>							
MECHANICAL OPERATION				30TIMES INSERTIONS AND EXTRACTIONS.			
VIBRATION				FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS x 10 CYCLE.			
SHOCK				490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			
<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.)			
DAMP HEAT (STEADY STATE)				EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h			
SULFUR DIOXIDE GAS				EXPOSED IN 25±5PPM, 25±2°C, 75%RH, 96h.			
RESISTANCE TO SOLDERING HEAT				①REFLOW TEMPERATURE: PEAK 250°C MAX 240°C MIN :20 sec MAX 220°C MIN :60 sec MAX ②MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX			
SOLDERABILITY				SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)			
COUNT		DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	
A							
<b>REMARKS</b>							
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.							
Note Q1:Qualification Test		AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-339516-02	
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		DF81-40S-0.4H(52)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL662-8100-4-52	
						1/1	
				APPROVED		MH. YAMANE	
				CHECKED		MH. TSUGHIDA	
				DESIGNED		AH. MIYAZAKI	
				DRAWN		AH. MIYAZAKI	
				DATE		13. 11. 06	
				DATE		13. 11. 05	
				DATE		13. 11. 01	
				DATE		13. 11. 01	