

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT		
RATING	OPERATING TEMPERATURE RANGE	-35°C T0 +85°C (NOTES 1)		STORAGE TEMPERATURE RANGE	-10°C T0 +60°C				
	VOLTAGE	30V AC		APPLICABLE CONNECTOR	DF38A-40S-0.3V				
	CURRENT	AWG42: 0.15A	AWG44: 0.10A	APPLICABLE CABLE	THIN COAXIAL CABLE (NOTES 2)				
		AWG46: 0.10A			(AWG#42~46)				
SPECIFICATIONS									
ITEM	TEST METHOD			REQUIREMENTS					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.					
MARKING	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		30TIMES 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 m/s 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 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	-
SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY 48 h.			NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.				X	-
SULFUR DIOXIDE GAS	EXPOSED IN 25 ppm, 25°C, RH75%, 96h.							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.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.				X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3 sec.			SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.				X	-
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED		DATE			
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT NOTE2: JACKET MAX 0.3mm Unless otherwise specified, refer to JIS C 5402, IEC60512. Note QT:Qualification Test AT:Assurance Test X:Applicable Test	△								
	APPROVED		TS. SAKATA		13. 07. 12				
	CHECKED		TS. SAKATA		13. 07. 12				
	DESIGNED		TP. MATSUMOTO		13. 07. 11				
DRAWN		TP. MATSUMOTO		13. 07. 11					
DRAWING NO.			ELG4-310479-01						
HRS SPECIFICATION SHEET		PART NO.	DF38-40P-0.3SD (51)						
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL662-4502-6-51		△ 1/1				