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

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-30°C TO 85°C (NOTE 1)		STORAGE TEMPERATURE RANGE	-10°C TO 60°C (NOTE 2)		
	OPERATING HUMIDITY RANGE	40% TO 80%		STORAGE HUMIDITY RANGE	40% TO 70% (NOTE 2)		
	VOLTAGE	250V AC		UL • CSA RATING	VOLTAGE	30V AC	
	CURRENT	AWG 22 TO 26 : 2A AWG 28 : 1A AWG 30 : 0.5A			CURRENT	AWG 22 : 2A AWG 24 TO 28 : 1A AWG 30 : 0.5A	
SPECIFICATIONS							
ITEM	TEST METHOD			REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X
MARKING		CONFIRMED VISUALLY.				X	X
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100mA (DC OR 1000 Hz).			30mΩ MAX.		X	-
INSULATION RESISTANCE	500V DC.			1000MΩ MIN.		X	-
VOLTAGE PROOF	650V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.		X	-
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1μs.		X	-
SHOCK	490 m/s <sup>2</sup> 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→+5 TO 35→+85 →5 TO 35 °C TIME 30→5 TO 15 →30 →5 TO 15 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
RESISTANCE TO SOLDERING HEAT	【RECOMMENDED TEMPERATURE PROFILE】 SOLDER TEMPERATURE, 260 ± 3 °C, FOR IMMERSION, DURATION, 10s. 【RECOMMENDED MANUAL SOLDERING CONDITION】 SOLDERING IRON TEMPERATURE: 290 ± 10 °C FOR WITHIN 3s. NO STRENGTH ON CONTACT. NO STRENGTH ON CONTACT.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR IN IMMERSION, DURATION, 10 s.			A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		X	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
REMARKS				APPROVED	TS. SAKATA	08.12.17	
NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.				CHECKED	TS. KUMAZAWA	08.12.17	
NOTE 2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERM STORAGE DURING TRANSPORTATION.				DESIGNED	KT. ISHII	08.12.15	
Unless otherwise specified, refer to JIS C 5402.				DRAWN	KT. ISHII	08.12.15	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-080248-01	
	SPECIFICATION SHEET			PART NO.	DF11-12DS-2DSA (05)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL543-0556-7-05		1/1