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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△				.. .	△				.. .
△				.. .	△				.. .
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO +85 °C (NOTE1)			STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C			
	VOLTAGE	250 VAC	JL-USA	30V AC	APPLICABLE CONTACT	---			
	CURRENT	2A	STANDARD	2A	APPLICABLE CONNECTOR	---			
					APPLICABLE CABLE	---			
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT AT	
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			○ ○	
MARKING		CONFIRMED VISUALLY.						○ ○	
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			30 mΩ MAX.			○ -	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.		20 mV MAX. mA (DC OR 1000 Hz).			mΩ MAX.			- -	
INSULATION RESISTANCE		500 V DC			1000 MΩ MIN.			○ -	
VOLTAGE PROOF		650 V AC FOR 1 min			NO FLASHOVER OR BREAKDOWN.			○ -	
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE.			INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.			- -	
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.			- -	
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS			① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○ -	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s ² AT 2 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 30 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○ -	
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: --- mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○ -	
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2°C, 90~95% 96 h.			① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○ -	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-55±3~3~3.5-85±2~5~35°C TIME 30~5~30~5 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: --- MΩ. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			○ -	
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 5 s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			○ -	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3 s.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.			○ -	
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT. Unless otherwise specified, refer to MIL-STD-1344.					R. Sasaki	T. Mizoguchi	J. Oma	M. Yamamoto	
					95.6.29	95.7.4	95.7.13	95.7.17	
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO. DF11F-XDP-2DSA	
CODE NO. (OLD)		DRAWING NO.			CODE NO.			1	
CL		ELC4-160085-01			0758-1 CL 543-0765-7				

TO

