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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	-35°C TO +85°C (NOTE1)			STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C					
	VOLTAGE	500V AC			APPLICABLE CONNECTOR	DF5 (A) - *S-5C (**) DF5A - *DS-5C (**)					
	CURRENT	AWG18 MAX 8A		APPLICABLE CABLE						AWG18~AWG22	
		AWG20 MAX 6A									
		AWG22 MAX 5A									
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		500V DC.			1000 MΩ MIN.				○	-	
VOLTAGE PROOF		1500V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.				○	-	
MECHANICAL CHARACTERISTICS											
CONTACT INSERTION AND EXTRACTION FORCES		□ 1.14 ± 0.002 BY STEEL GAUGE.			INSERTION FORCE 4.5 N MAX. EXTRACTION FORCE 0.3 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: 30mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				○	-	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, - m/s ² AT 2 h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10μs.				○	-	
SHOCK		490m/s ² DURATION OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS.			② CONTACT RESISTANCE: 30mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				○	-	
ENVIRONMENTAL CHARACTERISTICS											
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→15~35→+85→15~35°C TIME 30→10~15→30→10~15 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				○	-	
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2°C, 90~95%, 96h.			① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				○	-	
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, °C, FOR IMMERSION, DURATION, s.			NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS.				-	-	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, °C FOR IN IMMERSION, DURATION, s.			SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.				-	-	
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					<i>Miyoshi</i>	<i>T.Hijayoshi</i>	<i>C.Hanami</i>	<i>K.Katayama</i>			
Unless otherwise specified, refer to MIL-STD-1344.					99.1.27	99.1.27	99.1.30	99.2.1			
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test											
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF5-1822SC				
CODE NO.(OLD) CL		DRAWING NO. ELC4-160130			CODE NO. CL676-0002-4			1	1		

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