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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	-35°C TO +85°C (NOTE 1)		STORAGE TEMPERATURE RANGE	-10°C TO + 60°C		
	VOLTAGE	50V AC		APPLICABLE CONNECTOR	DF23C-14DP-0.5V (**)		
	CURRENT	0.3A					
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).			60mΩ MAX.		X	-
INSULATION RESISTANCE	100V DC.			500MΩ MIN.		X	-
VOLTAGE PROOF	150V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.		X	-
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 24 N MAX. EXTRACTION FORCE: 2.1 N MIN.		X	-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 60mΩ MAX. ② NO DAMAGE, CRACK AND 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. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→ 85→ 5 TO 35°C TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 60mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 60mΩ MAX. ② INSULATION RESISTANCE: 250 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		X	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
							
REMARKS				APPROVED	MO. NAKAMURA	07.06.07	
NOTE1:INCLUDING THE TEMPERATURE RISING BY CURRENT.				CHECKED	TS. MIYAZAKI	07.06.07	
UNLESS OTHERWISE SPECIFIED,REFER TO IEC60512				DESIGNED	TH. YAMAMOTO	07.06.06	
				DRAWN	AK. AOYAGI	07.06.04	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-163721-02	
	SPECIFICATION SHEET			PART NO.	DF23C-14DS-0.5V (53)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL688-0300-2-53		