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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 (NOTE 3)	
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE 2)	STORAGE HUMIDITY RANGE	40% TO 70% (NOTE 3)	
	VOLTAGE	100V AC/DC	APPLICABLE CONNECTOR	DF50 (S) -30DS-1C(##)	
	CURRENT	AWG 26 : 1.0A/PIN AWG 28 : 1.0A/PIN AWG 30 : 0.9A/PIN AWG 32 : 0.7A/PIN	APPLICABLE CONTACT	DF50-26SCFA(##) DF50-2830SCFA(##) DF50K-2830SCFA(##) DF50-3032SCFA(##)	
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 MILLIVOLT LEVEL METHOD	AC 20mV MAX, 1mA (DC OR 1000 Hz).		30 mΩ MAX.	X	—
INSULATION RESISTANCE	100V DC.		500 MΩ MIN.	X	—
VOLTAGE PROOF	300V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS					
INSERTION FORCE WITHDRAWAL FORCE	TESTING BY APPLICABLE CONNECTOR		INSERTION FORCE: 50.0 N MAX. WITHDRAWAL FORCE: 4.0 N MIN.	X	—
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLE FOR EACH, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR 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 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2h.)		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85°C TIME 30 → 30min. UNDER 5 CYCLES. THE TRANSFERRING TIME OF THE TANK IS 2~3 min. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1 TO 2h.)		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
			APPROVED	SJ. OKAMURA	20210823
			CHECKED	SZ. ONO	20210823
			DESIGNED	HT. SATO	20210823
			DRAWN	TS. HONJO	20210820
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-331316-76-01
HRS	SPECIFICATION SHEET		PART NO.	DF50-30DP-1H(76)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0665-0015-2-76	△ 1/2

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SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR INSERTION DURATION, 5 sec.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING «REFLOW AREA» MAX250 °C WITHIN 10 sec MIN 220 °C WITHIN 60 sec «PREHEATING AREA» 150 TO 180 °C 90 TO 120 s 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE 350±10 °C SOLDERING TIME 3 TO 4 s. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
REMARKS NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE 2: NO CONDENSING. NOTE 3: APPLY TO UNUSED PRODUCT ON PACKAGED CONDITION.				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-331316-76-01	
	SPECIFICATION SHEET	PART NO.	DF50-30DP-1H (76)	
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