



**THE DATASHEET OF
DF40HC(3.0)-80DS-0.4V(51)**



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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	-55°C TO 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C	
	VOLTAGE	$\triangle 1$ 50V AC	APPLICABLE CONNECTOR	DF40*-80DP-0.4V (**)	
	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	20mV AC OR LESS 1kHz,1mA .		90mΩ MAX.	X	-
INSULATION RESISTANCE	100V DC.		50MΩ MIN.	X	-
VOLTAGE PROOF	150V AC FOR 1 min. $\triangle 1$		NO FLASHOVER OR BREAKDOWN.	X	-
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 90mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz,APPROX 5min, SINGLE AMPLITUDE 0.75 mm,10CYCLES, 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					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35 °C TIME 30→ 5 MAX → 30→ 5 MAX min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 90mΩ MAX. ② INSULATION RESISTANCE: 50MΩ 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: 90mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96h,25°C,75%.		① CONTACT RESISTANCE: 180mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
HEAT RESISTANCE OF SOLDERING	RECOMMENDED TEMPERATURE PROFILE SOLDERING AREA MAX 250°C, 220°C FOR 60 SECONDS MAX. PREHEATING AREA 150 TO 180°C 90 TO 120SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. RECOMMENDED MANUAL SOLDERING CONDITION SOLDERING IRON TEMPERATURE 350°C. SOLDERING TIME: WIHTIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINASL.	X	-
SOLDERABILITY	SOLDERING TEMPERATURE: 245±5°C DURATION OF IMMERSION: SOLDERING FOR 3 SECONDS.		A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
$\triangle 1$	2	DIS-H-00019849	RT. SHIMIZU	TY. 001	20240228
REMARKS			APPROVED	MO. ISHIDA	20150717
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	TS. MIYAZAKI	20150717
Unless otherwise specified, refer to JIS C 5402, IEC 60512.			DESIGNED	SH. HOSODA	20150717
			DRAWN	KR. AJITO	20150717
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-342079-51-02	
HRS	SPECIFICATION SHEET		PART NO.	DF40HC (3. 0) -80DS-0.4V (51)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0684-4180-9-51	$\triangle 1$ 1/1

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