

Sep. 1.2021 Copyright 2021 HIROSE ELECTRIC CO., LTD. All Rights Reserved. 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	40 % TO 80 % (NOTE 2)	STORAGE HUMIDITY RANGE	40 % TO 70 %(NOTE 3)	
	CURRENT	1 A/pin	VOLTAGE	150 V AC (DC)	
	APPLICABLE CONNECTOR	DF14-*S-1.25C	APPLICABLE CONTACT	DF14-****SCF	
<b>SPECIFICATIONS</b>					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	20 mV MAX, 1mA (DC OR 1000 Hz)	30 mΩ MAX.	X	-	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	-	
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	
<b>MECHANICAL CHARACTERISTICS</b>					
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2) NO DAMAGE, CRACK OR 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 OR LOOSENESS OF PARTS.	X	-	
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35 °C TIME 30→ 10 TO 15→30→ 10 TO 15 min. UNDER 5 CYCLES.	1) CONTACT RESISTANCE: 30 mΩ MAX. 2) INSULATION RESISTANCE: 500 MΩ MIN. 3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.				
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING « REFLOW AREA » MAX 250°C WITHIN 10 sec MIN 230°C WITHIN 60 sec « PREHEATING AREA » 170°C to 190°C 60 sec To 120 sec PUT THROUGH IN REFLOW FUMACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE 350±5 °C, FOR 5±1 sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-	
SOLDERABILITY	SOLDERING TEMPERATURE : 245±5°C DURATION OF IMMERSION : SOLDERING, FOR 3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	-	
<b>REMARKS</b>					
NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.					
NOTE2: NO CONDENSING					
NOTE3: APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB. AFTER MOUNTED ON PCB, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
Unless otherwise specified, refer to IEC 60512.			APPROVED	HS.OKAWA	20200316
			CHECKED	TS.KUMAZAWA	20200316
			DESIGNED	HK.HAYASHI	20200316
			DRAWN	DS.HIROWATARI	20200311
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-160307-22-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	DF14-*P-1.25H(22)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL538	△ 1/1