




APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
RATING	-40°C T0 + 85°C (NOTE 1) 	40% T0 + 80%		-10°C T0 + 60°C (NOTE 2)	
OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	40% T0 + 70% (NOTE 2)		
OPERATING HUMIDITY RANGE		VOLUME	30V AC		
VOLTAGE	250V AC	UL • CSA RATING	AWG 22 : 2A		
CURRENT	AWG 22 T0 26 : 2A AWG 28 : 1A AWG 30 : 0.5A	CURRENT	AWG 24 T0 28 : 1A AWG 30 : 0.5A		
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).	30mΩ MAX.	X —		
INSULATION RESISTANCE	500V DC.	1000MΩ MIN.	X —		
VOLTAGE PROOF	650V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X —		
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30mΩ 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 1.5s. 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.	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 TO 15 →30 →5 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ 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: 30mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X —		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
	DIS-H-008540	MI. SAKIMURA	HK. UMEHARA	14.02.26	
		APPROVED	TS. SAKATA	09.12.16	
		CHECKED	TS. FUKUSHIMA	09.12.15	
		DESIGNED	TH. YOSHIZAWA	09.12.15	
		DRAWN	YK. NAKATSU	09.12.09	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-328653-00		
HRS		SPECIFICATION SHEET		PART NO.	DF11GZ-*DS-2V (52)
		HIROSE ELECTRIC CO., LTD.		CODE NO.	QL543 

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	1) AUTOMATIC SOLDERING (REFLOW) 《REFLOW AREA》 MAX 250°C WITHIN 10 sec. MIN 230°C WITHIN 60 sec. 《PREHEATING AREA》 150 TO 180°C 90 TO 120 sec. PUT THROUGH IN REFLOW FURNACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :290±10°C, SOLDERING TIME :3s. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IN IMMERSION , DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	-

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REMARKS

NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT. FOR UNUSED PRODUCTS BEFORE PCB ON BOARD,
 NOTE 2:APPLY TO THE CONDITION OF LONG TERM STORAGE AFTER PCB BOARD. OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.
 NOTE 3:THE TEMPERATURE PROFILE SHALL BE APPLIED WITHIN 168 HOURS AFTER OPENING MOISTURE-PROOF PACKAGING. WHEN 168 HOURS PASSED AFTER OPENING , APPLY THE BOTTOM REQUIREMENTS.
 《REFLOW AREA》
 MAX 240°C WITHIN 10 sec.
 MIN 230°C WITHIN 60 sec.
 《PREHEATING AREA》
 150 TO 180°C 90 TO 120 s.

Unless otherwise specified , refer to IEC 60512.

Note	QT:Qualification Test	AT:Assurance Test	X:Applicable Test	DRAWING NO.	ELC4-328653-00
HRS	SPECIFICATION SHEET		PART NO.	DF11GZ-*DS-2V (52)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL543	△
					2/2