

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE	
RATING	OPERATING TEMPERATURE RANGE -40°C T0 + 85°C (NOTE 1) Δ	STORAGE TEMPERATURE RANGE -10°C T0 + 60°C (NOTE 2)	
	OPERATING HUMIDITY RANGE 40% T0 + 80%	STORAGE HUMIDITY RANGE 40% T0 + 70% (NOTE 2)	
	VOLTAGE 250V AC	VOLTAGE 30V AC	
	CURRENT AWG 22 T0 26 : 2A AWG 28 : 1A AWG 30 : 0.5A	UL · CSA RATING CURRENT AWG 22 : 2A 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 1μs. 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.		X	-

ENVIRONMENTAL CHARACTERISTICS				
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	-
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: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
2	DIS-H-008928	HT. SATO	TS. FUKUSHIMA	14. 07. 16
			TS. SAKATA	08. 04. 01
			TS. KUMAZAWA	08. 04. 01
			KT. ISHII	08. 04. 01
			YK. NAKATSU	08. 03. 13

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-163554-05

HRS	SPECIFICATION SHEET	PART NO.	DF11G-*DP-2V(57)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	GL543

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 FUMAGE TWICE. FEAVE 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.
 NOTE 2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD , AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERM 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 specifid , refer to IEC 60512

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HRS	SPECIFICATION SHEET	PART NO.	DF11C-*DP-2V (57)	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL543	2/2