

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE	
RATING	OPERATING TEMPERATURE RANGE -40°C T0 + 85°C (NOTE 1) $\Delta$	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
<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	100mA (DC OR 1000 HZ).	30m $\Omega$ MAX.	X	-
INSULATION RESISTANCE	500V DC.	1000M $\Omega$ MIN.	X	-
VOLTAGE PROOF	650V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-

<b>MECHANICAL CHARACTERISTICS</b>				
MECHANICAL OPERATION				
VIBRATION	50 TIMES INSERTIONS AND EXTRactions.	① CONTACT RESISTANCE: 30m $\Omega$ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
SHOCK	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 $\mu$ s. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-

<b>ENVIRONMENTAL CHARACTERISTICS</b>				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 $\pm$ 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 30m $\Omega$ MAX. ② INSULATION RESISTANCE: 500M $\Omega$ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 $\rightarrow$ -5 TO 35 $\rightarrow$ +85 $\rightarrow$ -5 TO 35 °C TIME 30 $\rightarrow$ 10 TO 15 $\rightarrow$ 30 $\rightarrow$ 10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30m $\Omega$ MAX. ② INSULATION RESISTANCE: 1000M $\Omega$ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-

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

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

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

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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 IMMERSIED.	X	-

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