



**THE DATASHEET OF  
DF61-2P-2.2V(21)**



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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	-35 °C TO +85°C (NOTE1)		STORAGE TEMPERATURE RANGE	-10 °C TO +60°C (NOTE3)		
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE2)		STORAGE HUMIDITY RANGE	40% TO 70% (NOTE3)		
	APPLICABLE CONNECTOR	DF61-2S-2.2C		UL, C-UL Rating	Voltage	350 V AC/DC	
	VOLTAGE	350 V AC/DC			Current	AWG 28 : 3.0A AWG 26 : 3.2A AWG 24 : 4.0A AWG 22 : 5.0A	
	CURRENT	AWG 28 : 3.0A AWG 26 : 3.2A AWG 24 : 4.0A AWG 22 : 5.0A					
<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 MILLIVOLT LEVEL METHOD		20mV MAX, 1mA (DC or 1000Hz).		10 mΩ MAX.		X	-
INSULATION RESISTANCE		500 V DC.		1000 MΩ MIN.		X	-
VOLTAGE PROOF		1700 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-
<b>MECHANICAL CHARACTERISTICS</b>							
MECHANICAL OPERATION		30 TIMES INSERTION AND EXTRACTION.		①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
CONTACT INSERTION AND EXTRACTION FORCES		IT TAKES OUT AND INSERTS WITH A CONFORMITY CONNECTOR.		①INSERTION FORCE : 20.0N MAX. ②EXTRACTION FORCE: 0.5N MIN.		X	-
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION.		①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO 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.				X	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2°C , 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)		①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 500 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55°C→ +85°C TIME 30min→ 30min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2~3 min) (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)		①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 500 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING « REFLOW TIME » NUMBER OF REFLOW CYCLES : 2 CYCLES MAX. DURATION ABOVE 220 °C, 60 sec. MAX. PEAK TEMPERATURE: 250°C 10 sec. MAX. « PRE-HEAT TIME » PRE-HEAT TEMPERATURE : 150-180 °C PRE-HEAT TIME : 90-120 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 350±10°C, SOLDERING TIME : 3sec. NO STRENGTH ON CONTACT.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-
SOLDERABILITY		SOLDERING TEMPERATURE : 245°C DURATION OF IMMERSION : SOLDERING, FOR 5 sec.		NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		X	-
NOTE1:INCLUDE THE TEMPERATURE RISING BY CURRENT.							
NOTE2:NO CONDENSING.							
NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR MOUNTED ON PCB. AFTER MOUNTED ON PCB, OPERATION TEMPERATURE AND HUMIDITTY RANGE ARE APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.							
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
	1	DIS-H-00005315		SN. MIWA	SZ. ONO	20191004	
REMARKS					APPROVED	KI. AKIYAMA	20111019
					CHECKED	OM. MIYAMOTO	20111018
Unless otherwise specified, refer to IEC 60512.					DESIGNED	TT. OHSAKO	20111018
					DRAWN	TT. OHSAKO	20111018
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-336115-21-01	
		SPECIFICATION SHEET		PART NO.	DF61-2P-2.2V (21)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-5001-1-21		1/1

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