

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +105°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	DF59S-1P-FC DF59S-1P-C	CURRENT	3A
			VOLTAGE	SPECIFICATION
UL/C-UL				TBD
		TÜV	TBD	

## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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### CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

### ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	DC6V MAX, 100mA.	50mΩ MAX.	X	-
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### MECHANICAL CHARACTERISTICS

MECHANICAL OPERATION	10TIMES INSERTION AND EXTRACTION.	①50mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55Hz, SINGLE AMPLITUDE 0.75mm, AT 10CYCLES FOR 3DIRECTION.	①NO ELECTRICAL DISCONTINUITY OF 1μs. 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	-

### ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2°C , 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)	①50mΩ MAX. ②NO 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.)		X	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING NUMBER OF REFLOW CYCLES : 2CYCLES MAX. «REFLOW AREA» DURATION ABOVE 220°C, 60sec. MAX. PEAK TEMPERATURE: 250°C, 10sec. MAX. «PRE-HEAT AREA» PRE-HEAT TEMPERATURE:150°C TO 180°C PRE-HEAT TIME:90sec. TO 120sec. 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 5sec.	NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMersed.	X	-

NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.

NOTE2:NO CONDENSING

NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR PCB ON BOARD, AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITTY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.

NOTE4:APPLY TO THE CONDITION OF PARALLEL ARRANGEMENT THE SIZE BETWEEN PATTERN:3.0mm MIN FOR THE VOLTAGE.

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0				

REMARKS  Unless otherwise specified, refer to JIS C 5402 and IEC60512.	APPROVED	KI. AKIYAMA	12. 11. 14
	CHECKED	OM. MIYAMOTO	12. 11. 14
	DESIGNED	KT. ISHII	12. 11. 13
	DRAWN	KT. ISHII	12. 11. 13

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELG4-342887-03
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	DF59S-1S-V (24)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL667-0024-6-24
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