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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 OPERATING HUMIDITY RANGE	-35°C TO +85°C(NOTE 1) 20% TO 80%(NOTE 2)	STORAGE TEMPERATURE RANGE STORAGE HUMIDITY RANGE	-10°C TO +60°C(NOTE 3) 40% TO 70%(NOTE 2)(NOTE 3)
	VOLTAGE	100V AC / DC	APPLICABLE CONNECTOR	DF81※-50S-0.4H(##)
	CURRENT	AWG#34,36 : 0.3(MAX0.8A) AWG#40 : 0.25A AWG#42 : 0.2A AWG#44 : 0.15A AWG#46 : 0.1A (NOTE4) (NOTE5)	APPLICABLE CABLE	THIN COAXIAL CABLE : AWG#36～AWG#46 / DISCRETE CABLE : AWG#34～40(Jacket : φ0.4MAX)

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
ENVIRONMENTAL CHARACTERISTICS				
SULFUR DIOXDE GAS	EXPOSED IN 25±5PPM , 25±2℃ , 75%RH , 96h.	NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	X	—
RESISTANCE TO SOLDERING HEAT	①BONDING TEMPERATURE: 270°C MAX :5 sec MAX 200°C MIN :30 sec MAX ②MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT
NOTE2: NON CONDENSING
NOTE3: THE TERM "STORAGE" REFERS TO PRODUCTS STORED FOR A LONG PERIOD PRIOR TO MOUNTING AND USE. THE OPERATING TEMPERATURE AND HUMIDITY RANGE COVERS THE NON-CONDUCTING CONDITION OF CONNECTORS AFTER BOARD MOUNTING AND THE TEMPORARY STORAGE CONDITIONS OF TRANSPORTATION, etc
NOTE4:IT COULD BE VARIED DEPENDING ON THE CONDITIONS.
"MAX" IS RATING CURRENT AS ONLY TWO OF THEM TURN ON ELECTRICITY.
NOTE5: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CABLE IS NOT INCLUDED.

Unless otherwise specified, refer to JIS C 5402,IEC60512.

APPROVED	MH. YAMANE	13. 11. 06
CHECKED	MH. TSUCHIDA	13. 11. 05
DESIGNED	AH. MIYAZAKI	13. 11. 01
DRAWN	AH. MIYAZAKI	13. 11. 01

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-345360-02

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. DF81-50P-SHL(52)

CODE NO. CL662-8112-3-52 0 1/1

FORM HD0011-2-1