CONSTRUCTION GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING. X X X X X X X X X									
TEMPERATURE RANGE	APPLICA	BLE STAND	ARD						
SPECIFICATIONS TEM			E RANGE	-45°C TO +125°C(NOTES 1)			-10°C TO + 60°C (N	0TE2)	
SPECIFICATIONS ITEM TEST METHOD REQUIREMENTS © CONSTRUCTION GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING. XARKING CONFIRMED VISUALLY. ZELECTRIC CHARACTERISTICS CONTACT RESISTANCE 100m A (DC OR 1000 Hz). 50mΩ MAX. X INSULATION RESISTANCE 100V DC 500M MAX. X VOLTAGE PROOF 150V AC FOR 1 min. NO FLASHOVER OR BREAKDOWN. X MECHANICAL CHARACTERISTICS WITHDRAWAL FORCES MEASURED BY APPLICABLE CONNECTOR. WITHDRAWAL FORCES MECHANICAL OPERATION 50TIMES INSERTIONS AND EXTRACTIONS. 10 CONTACT RESISTANCE 50mΩ MAX. X VIBRATION FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. 20 no daMage, crack or Loosenses of Parts. X FOR 3 DIRECTIONS. 10 NO ELECTRICAL DISCONTINUITY OF 1µs. X POND TO SOME ACCORDINATION OF PULSE 11 ms AT 3 TIMES FOR SIGNAL COORDINATY OF 1µs. X ENVIRONMENTAL CHARACTERISTICS ENVIRONMENTAL CHARACTERISTICS TEMPERATURE 65-415 TO 350-4125-415 TO 35°C TEMPERATURE 10 TEMPERATURE 65-415 TO 35°C TEMPERATURE 20-40 TO 55 Mz. 30-41070 Simil No DAMAGE crack or LOOSENSS OF PARTS. Y ENVIRONMENTAL CHARACTERISTICS RAPID CHARACTERISTICS RAPID CHARACTERISTICS TEMPERATURE 50-415 TO 35°C 4150-415 TO 35°C TEMPERATURE 10 TEMPERATURE 65-415 TO 35°C 4150-415 TO 35°C TEMPERATURE 10 TEMPERATURE 65-415 TO 35°C 4150-415 TO 35°C TEMPERATURE 20-40 TO 55 Mz. 30-41070 Simil No DAMAGE crack or LOOSENSS OF PARTS. Y ENVIRONMENTAL CHARACTERISTICS RAPID CHARACTERISTICS RAPID CHARACTERISTICS RAPID CHARACTERISTICS TEMPERATURE 50-415 TO 35°C 4150-415 TO 35°C TEMPERATURE 50-	RATING	VOLTAGE		50V AC	APPL	ICABLE CONNECTOR	↑ DF12#(3.0) −*DP−0.	5V (*>	k)
ITEM		CURRENT		0. 3A					
ITEM				SPECIFICATION	ON:	S			
CONSTRUCTION GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING. X MARKING CONFIRMED VISUALLY. X ELECTRIC CHARACTERISTICS CONTACT RESISTANCE 100m A (DC OR 1000 Hz). 500mΩ MAX. X VINSULATION RESISTANCE 100m A (DC OR 1000 Hz). 500mΩ MAX. X VOLTAGE PROOF 150V AC FOR 1 min. NO FLASHOVER OR BREAKDOWN. X MECHANICAL CHARACTERISTICS INSERTION AND WITHDRAWAL FORCES INSERTION AND MEASURED BY APPLICABLE CONNECTOR. VITHORAWAL FORCES MECHANICAL OPERATION 50TIMES INSERTIONS AND EXTRACTIONS. 10 CONTACT RESISTANCE: 50 mΩ MAX. 20 NO DAMAGE, CRACK OR LOOSENESS OF PARTS. 10 NO ELECTRICAL DISCONTINUITY OF 1µs. X VIBRATION FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. 20 NO DAMAGE, CRACK OR LOOSENESS OF PARTS. 10 NO ELECTRICAL DISCONTINUITY OF 1µs. X FOR 3 DIRECTIONS. 20 NO DAMAGE, CRACK OR LOOSENESS OF PARTS. 20 NO DAMAGE, CRAC		TEM					JIREMENTS	QT	AT
CONTACT RESISTANCE CONFIRMED VISUALLY. X X X X X X X X X	CONSTR	UCTION							
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INSULATION RESISTANCE	ELECTRI	C CHARAC	TERIST	ICS					
VOLTAGE PROOF 150V AC FOR 1 min. NO FLASHOVER OR BREAKDOWN. X	CONTACT F	RESISTANCE	100m A (DC OR 1000 Hz).			50mΩ MAX.	Х	-	
MECHANICAL CHARACTERISTICS	INSULATION	RESISTANCE	100	V DC		500M Ω MAX	Х	_	
MEASURED BY APPLICABLE CONNECTOR. SIGNAL INSERTION WITHDRAWAL FORCE	VOLTAGE F	PROOF	150V AC FOR 1 min.			NO FLASHOVER	Х	-	
MEASURED BY APPLICABLE CONNECTOR. SIGNAL INSERTION WITHDRAWAL FORCE	MECHAN	IICAL CHAR	ACTER	ISTICS		<u> </u>		1	
MECHANICAL OPERATION 50TIMES INSERTIONS AND EXTRACTIONS. 0 CONTACT RESISTANCE: 50m MAX. (2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS. VIBRATION FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. 2 NO DAMAGE, CRACK OR LOOSENESS OF PARTS. SHOCK 490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. ENVIRONMENTAL CHARACTERISTICS RAPID CHANGE OF TEMPERATURE -65→15 TO 35→125→15 TO 35°C TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES. DAMP HEAT (STEADY STATE) EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. CORROSION SALT MIST EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. CORROSION SALT MIST EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD JEIDA-39) HEAT RESISTANCE OF SOLDERING AREA) MAX250°C, 220°C FOR 60 SECONDS MAX. (PREHEATING AREA) 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.]			MEASUF	RED BY APPLICABLE CONNECTOR.		31G N A L 10 14 20 30 32 36 40 50 60	FORCE FORCE (N)MAX (N)MIN 19.8 1.5 21.3 2.1 23.4 2.6 27.0 3.4 27.6 3.6 29.0 4.0 30.6 4.2 34.2 5.0 38.0 6.0	X	_
VIBRATION FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. 2 no damage, crack or looseness of parts. X 2 h or most of parts of parts of the parts of th	MECHANICA	L OPERATION	50TIMES	INSERTIONS AND EXTRACTIONS.		① CONTACT RE	SISTANCE: 50mΩ MAX.	X	-
SHOCK 490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. ENVIRONMENTAL CHARACTERISTICS RAPID CHANGE OF TEMPERATURE -65→15 TO 35→125→15 TO 35°C TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES. DAMP HEAT (STEADY STATE) EXPOSED IN 10 PPM FOR 96 h. CTEST STANDARD: JEIDA-39) HEAT RESISTANCE OF SOLDERING [RECOMMENDED TEMPERATURE PROFILE] SOLDERING [RECOMMENDED TEMPERATURE PROFILE] SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION] [RECOMMENDED MANUAL SOLDELING CONDITION] [RECOMMENDED MANUAL SOLDELING CONDITION]	VIBRATION					① NO ELECTRICA	AL DISCONTINUITY OF 1μs.	Х	_
ENVIRONMENTAL CHARACTERISTICS RAPID CHANGE OF TEMPERATURE -65→15 TO 35→125→15 TO 35°C TEMPERATURE 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES. DAMP HEAT (STEADY STATE) EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. CORROSION SALT MIST EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) HEAT RESISTANCE OF SOLDERING AREA) MAX250°C, 220°C FOR 60 SECONDS MAX. (PREHEATING AREA) MAX150°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION]	SHOCK					① NO ELECTRICA	Х	_	
RAPID CHANGE OF TEMPERATURE -65→15 TO 35→125→15 TO 35°C TEMPERATURE TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES: DAMP HEAT (STEADY STATE) EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. CORROSION SALT MIST EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD; JEIDA-39) HEAT RESISTANCE OF SOLDERING (SOLDERING MAX250°C, 220°C FOR 60 SECONDS MAX. (PREHEATING AREA) 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.] [RECOMMENDED MANUAL SOLDELING CONDITION.]	ENVIRON	MENTAL C	HARAC	TERISTICS					
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DAMP HEAT (STEADY STATE) EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. ① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 mΩ MAX. ② IND DAMAGE, CRACK OR LOOSENESS OF PARTS. CORROSION SALT MIST EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION. SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) HEAT RESISTANCE OF SOLDERING (SOLDERING AREA) MAX250°C, 220°C FOR 60 SECONDS MAX. 《PREHEATING AREA) 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION]	TEMPERAT	URE	· · · · = · · · · · · · · · · · · ·			~		-	
(STEADY STATE) (2) INSULATION RESISTANCE: 500 MΩ MIN. (3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS. CORROSION SALT MIST EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. (1) CONTACT RESISTANCE: 50 mΩ MAX. (2) NO HEAVY CORROSION. SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) HEAT RESISTANCE OF SOLDERING AREA) MAX250°C, 220°C FOR 60 SECONDS MAX. (PREHEATING AREA) 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION]	DAMB HEAT	-				,		—	
② NO HEAVY CORROSION. SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) HEAT RESISTANCE OF SOLDERING SOLDERING MAX250°C, 220°C FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION]			EXPOSE	DAI 40 ± 2°C, 90 1O 95 %, 96 h.		② INSULATION RE	SISTANCE: 500 MΩ MIN.	X	-
(TEST STANDARD: JEIDA-39) HEAT RESISTANCE OF SOLDERING (SOLDERING AREA) MAX250°C, 220°C FOR 60 SECONDS MAX. (PREHEATING AREA) 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION]	CORROSION	I SALT MIST	EXPOSED) IN 5% SALT WATER SPRAY FOR 48 h.		~		Х	-
SOLDERING AREAN MAX250°C, 220°C FOR 60 SECONDS MAX. (PREHEATING AREAN) 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. [RECOMMENDED MANUAL SOLDELING CONDITION]	SULPHUR DI	IOXIDE				1~		Х	-
SOLDERING TIME : WITHIN 3 SECONDS. REMARKS	SOLDERING		《SOLDEI MAX28 《PREHE 150 TO MAXIM SAME 【RECOM SOLDE	RING AREA) 50°C, 220°C FOR 60 SECONDS MAX. ATING AREA) 0 180°C 90~120 SECONDS. IUM TWICE ACTION IS ALLOWED UNDER 1 CONDITION. IMENDED MANUAL SOLDELING CONDITION ERING IRON TEMPERATURE 350°C					

NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.

NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS. APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPLLY. OPERATION TEMPERATURE FOR TAPE-AND-REAL PRODUCTS SHALL BE -10 TO 50°C. MOUNT CONNECTORS WITHIN 12HOURS AFTER TAKING OUT FROM THE PACKAGE. UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.

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	COUNT	DESCRIPTION OF REVISIONS	DESIGNED		CHECKED	DATE	
Δ	2	DIS-H-001982	YH. MICHIDA		TS.MIYAZAKI	07. 04. 20	
				APPROVE	TS. SAKATA	05. 01. 0524	
				CHECKED	TS. SAKATA	05. 01. 24	
				DESIGNED	TH. YAMAMOTO	05. 01. 0521	
				DRAWN	YH. MICHIDA	05.01.0518	
Note	e QT:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC4-160764-06		
		SPECIFICATION SHEET	PART NO.	DF1	DF12B(3.0)-*DS-0.5V(86)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.		CL537	1 /1	