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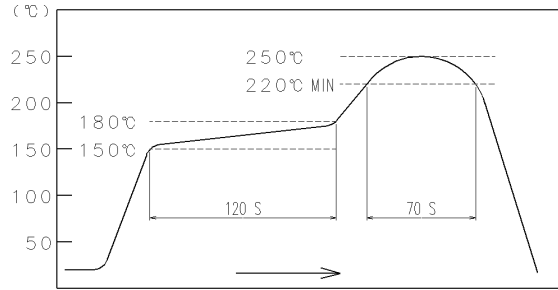
APPLICABLE STANDARD		USB2.0 SPECIFICATION AND MICRO-USB CABLE AND CONNECTORS SPECIFICATION.				
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO +85°C		STORAGE TEMPERATURE RANGE	-30°C TO +85°C	
	VOLTAGE	30V AC		OPERATING HUMIDITY RANGE	— % TO — %	
	CURRENT ① SIGNAL ONLY ② POWER APPLY	① 1 A/pin ② 1.8 A/pin (PIN No.1, 5) 0.5 A/pin (PIN No.2-4)		APPLICABLE CABLE	—	
<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>ELECTRICAL CHARACTERISTICS</b>						
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).		30 mΩ MAX.	X	X
INSULATION RESISTANCE		500 V DC.		100 MΩ MIN.	X	X
VOLTAGE PROOF		100 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X
CAPACITANCE		MEASURE ADJACENT TWO CONTACTS AT 1000±10 Hz AC VOLTAGE.		2 pF MAX.	X	—
<b>MECHANICAL CHARACTERISTICS</b>						
INSERTION AND WITHDRAWAL FORCES		A MAXIMUM RATE OF 12.5 mm/min. MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 8 N MIN.	X	—
MECHANICAL OPERATION		10000 TIMES INSERTIONS AND EXTRACTIONS.  MATING SPEED - MECHANICALLY OPERATED: 500 CYCLES / h - MANUALLY OPERATED: 200 CYCLES / h		① CONTACT RESISTANCE: NO INCREASE OF MORE THAN 10 mΩ FROM INITIAL VALUE. ② INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 8 N MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS, TOTAL 6 h.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
RANDOM VIBRATION		FREQUENCY 50 TO 2000 Hz, AT 15 min, FOR 3 DIRECTIONS.				
SHOCK		490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.				
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
THERMAL SHOCK		TEMPERATURE -55 → 15 TO 35 → 85 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 10 CYCLES. (MATING APPLICABLE CONNECTOR)		① CONTACT RESISTANCE: 70 mΩ MAX. ② INSULATION RESISTANCE: 10 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
HUMIDITY LIFE		TEMPERATURE -10 TO 65 °C, HUMIDITY 90 TO 98 %, UNDER 7 CYCLES (168h) (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DRY HEAT		EXPOSED AT +85±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)				
COLD		EXPOSED AT -40±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)				
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER, 35 °C FOR 48 h. (LEFT UNDER UNMATED CONDITION)		NO HEAVY CORROSION.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△	1	DIS-E-00000490	TS. ITO	NM. NISHIMATSU	16. 03. 02	
REMARK				APPROVED	NM. NISHIMATSU	15. 10. 27
HIROSE will not guarantee the performance on these specifications in case this product will be mated with the others which is not HIROSE's.				CHECKED	KN. ICHIKAWA	15. 10. 27
Unless otherwise specified, refer to USB2.0, EIA364 or IEC 60512.				DESIGNED	TS. ITO	15. 10. 27
				DRAWN	AK. AKIYAMA	15. 10. 27
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-126102-30-00		
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	ZX80-B-5S (30)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL242-0017-1-30		△

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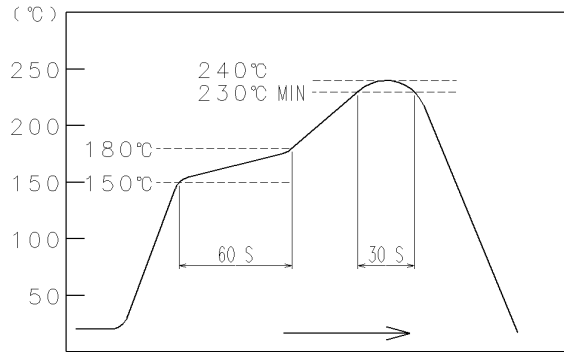
# SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLE.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-

FIG-1  
RESISTANCE OF SOLDERING HEAT (TEMPERATURE AT TOP SURFACE OF CONNECTOR)



RECOMMENDED PROFILE REFERS TO FIG-2 (TEMPERATURE AT SMT LEAD)  
FIG-2 RECOMMENDED REFLOW PROFILE TEMPERATURE



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	HIROSE ELECTRIC CO., LTD.		CODE NO	CL242-0017-1-30	△ 2/2