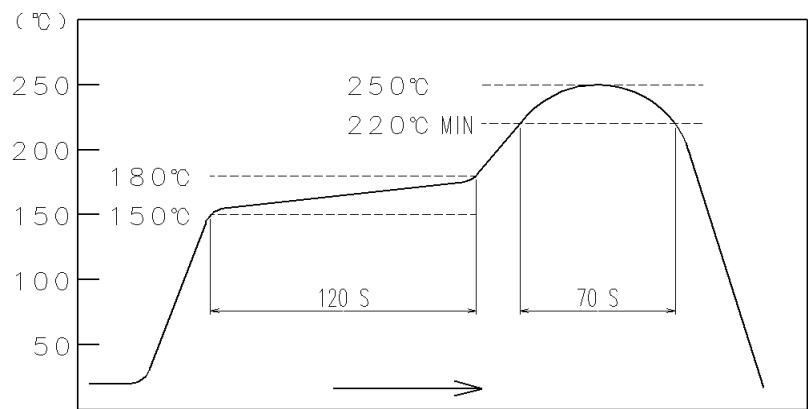
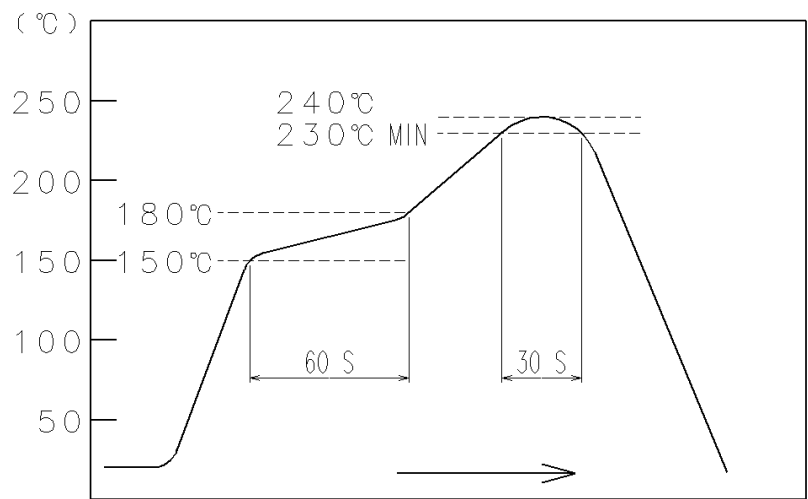


APPLICABLE STANDARD		USB2.0 SPECIFICATION AND MICRO-USB CABLE AND CONNECTORS SPECIFICATION.				
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-30 °C TO +60 °C		
	VOLTAGE	30 V AC	OPERATING HUMIDITY RANGE	-		
	CURRENT 1) SIGNAL ONLY 2) POWER APPLY	1) 1 A / pin 2) 1.8 A / pin (PIN No.1,5) 0.5 A / pin (PIN No.2-4)	APPLICABLE CABLE	-		
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS		
CONSTRUCTION						
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X X	
MARKING		CONFIRMED VISUALLY.			X X	
ELECTRICAL CHARACTERISTICS						
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 —	
MECHANICAL CHARACTERISTICS						
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 EXTRACTATIONS. 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 AXIAL DIRECTIONS.		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 AXIAL DIRECTIONS.			X —	
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.			X —	
ENVIRONMENTAL CHARACTERISTICS						
THERMAL SHOCK		TEMP -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. (168 h) (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —	
DRY HEAT		EXPOSED AT 85±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —	
COLD		EXPOSED AT -40±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER, 35 °C FOR 48 h. (LEFT UNDER UNMATED CONDITION)		NO HEAVY CORROSION.	X —	
SOLDERABILITY		SOLDERING POINT IMMERSSED IN SOLDER BATH OF 255±5 °C, 5 sec.(USING TYPE R FLUX)		SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	X —	
RESISTANCE TO SOLDERING HEAT		A PROFILE IS SHOWN IN FIG.-1, UNDER 2 CYCLES.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△						
REMARK HIROSE will not guarantee the performance on these specifications in case this product will be mated with the others which is not HIROSE's. Unless otherwise specified, refer to USB2.0, EIA364 or IEC 60512.			APPROVED	NM. NISHIMATSU	15. 10. 27	
			CHECKED	KN. ICHIKAWA	15. 10. 27	
			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-126522-31-00		
HRS	SPECIFICATION SHEET		PART NO.	ZX60-B-5S (31)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL242-0043-1-31	△ 1/2	

SPECIFICATIONS



■ RECOMMENDED PROFILE REFERS TO FIG - 2.
(TEMPERATURE AT SMT LEADS)



Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO. ELC-126522-31-00	
HRS	SPECIFICATION SHEET	PART NO. ZX60-B-5S (31)	
	HIROSE ELECTRIC CO., LTD.	CODE NO. CL242-0043-1-31	2/2