


APPLICABLE STANDARD		USB2.0 SPECIFICATION AND MICRO-USB CABLES AND CONNECTORS SPECIFICATION.				
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +85°C	STORAGE TEMPERATURE RANGE	-30°C TO +60°C		
	VOLTAGE	AC 30V	CURRENT	SIGNAL ONLY	1.0 A/pin	
				POWER APPLY	1.8 A/pin (PIN No.1, No.5)	
					0.5 A/pin (PIN No.2-No.4)	
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
ELECTRICAL CHARACTERISTICS						
CONTACT RESISTANCE	100 mΩ (DC OR 1000 Hz).		30 mΩ MAX.		X	X
INSULATION RESISTANCE	500 V DC.		1000 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±10Hz 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 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 2h FOR 3 AXIAL DIRECTIONS, TOTAL 6 h.		1) NO ELECTRICAL DISCONTINUITY OF 1μs. 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~+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 AT 5 % SALT WATER, 35 °C, FOR 48h. (LEFT UNDER UNMATED CONDITION)		NO HEAVY CORROSION.		X	—
SOLDERABILITY	SOLDERING POINT IMMERSSED IN SOLDER BATH OF 255±5°C, 5 sec. (USING TYPE R FLAX)		SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED.		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 or EIA 364 .			APPROVED	RI. TAKAYASU	11. 06. 20
				CHECKED	TA. ASO	11. 06. 20
				DESIGNED	WR. YAMADA	11. 06. 20
				DRAWN	WR. YAMADA	11. 06. 20
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-126992-02	
HRS	SPECIFICATION SHEET		PART NO.	ZX62WD1-B-5PC		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL242-0121-3-00		
						1/2

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES.	NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.	X	—

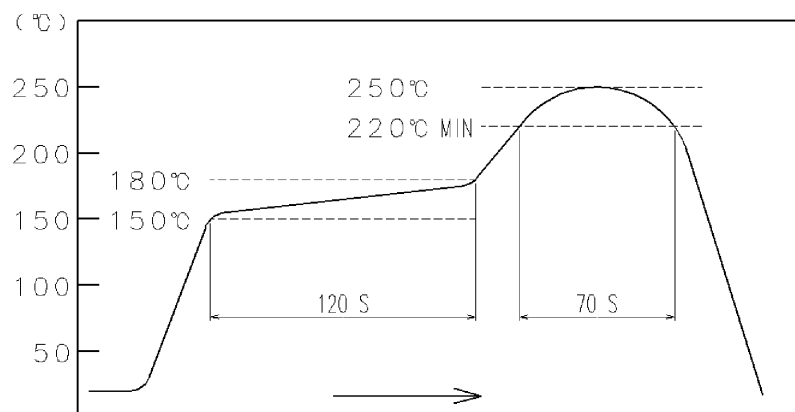


FIG - 1 RESISTANCE TO SOLDERING HEAT
(TEMPERATURE AT TOP SURFACE OF CONNECTOR)

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

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HRS

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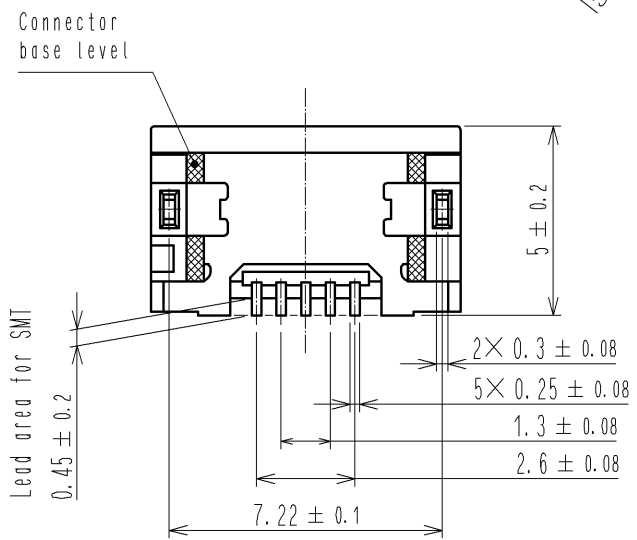
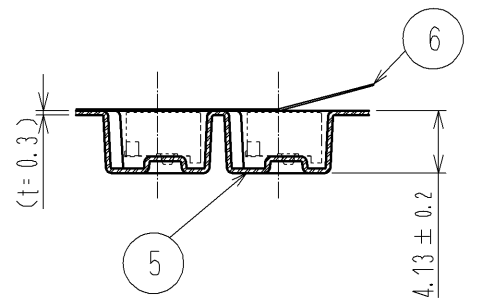
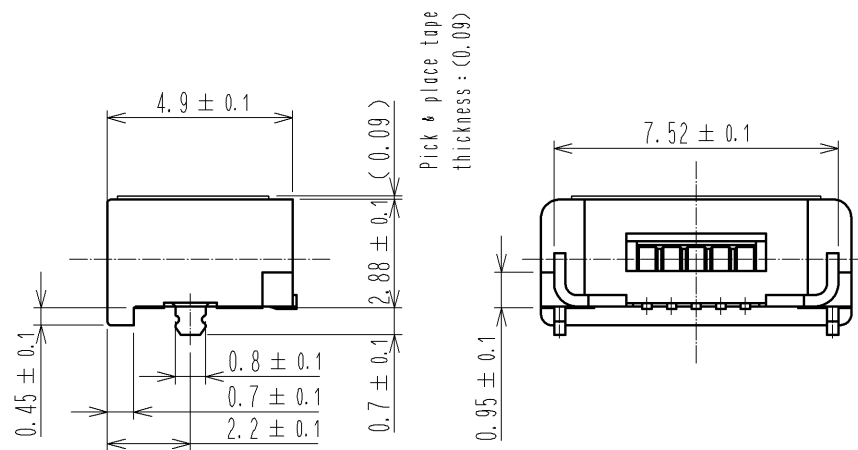
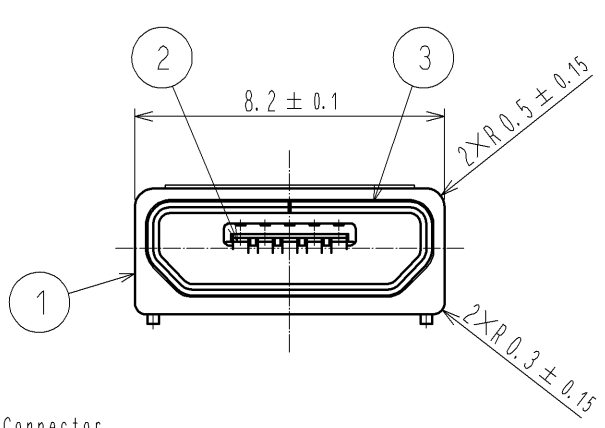
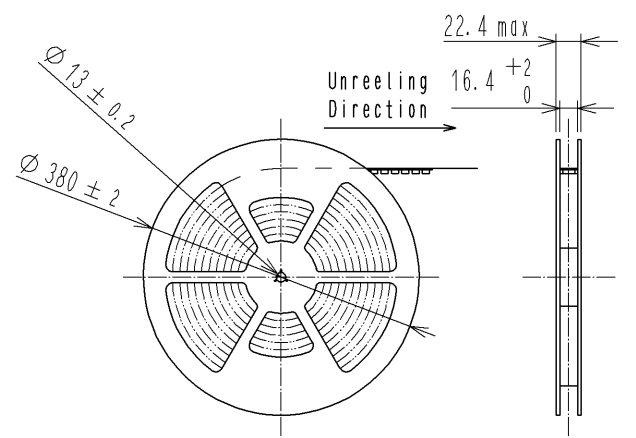
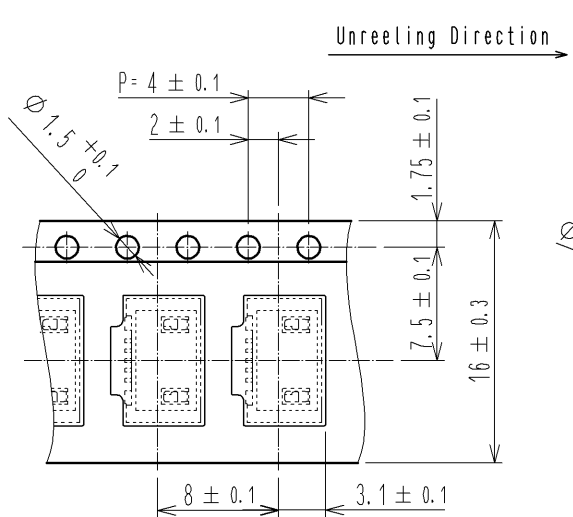
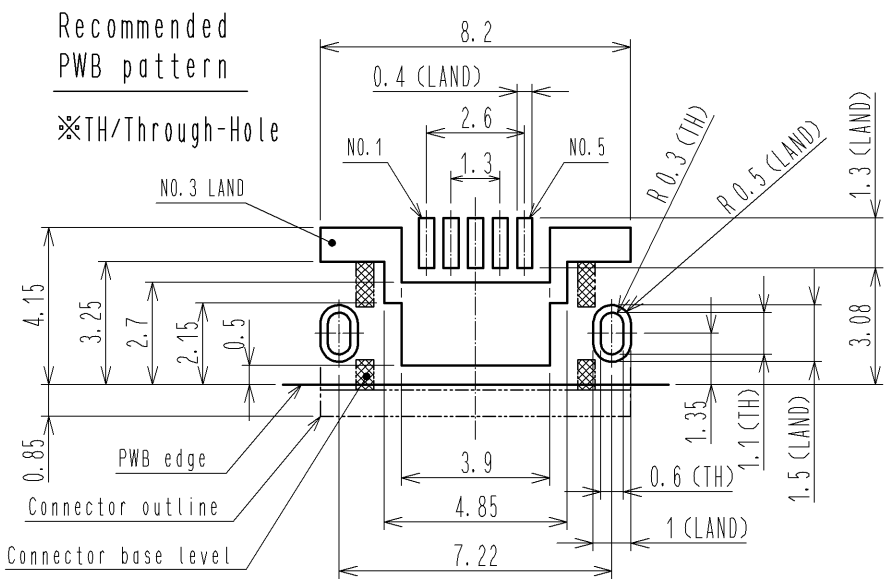
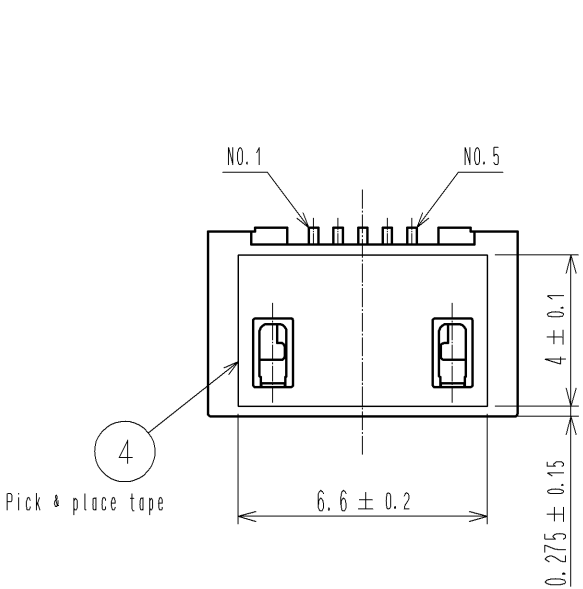
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CODE NO

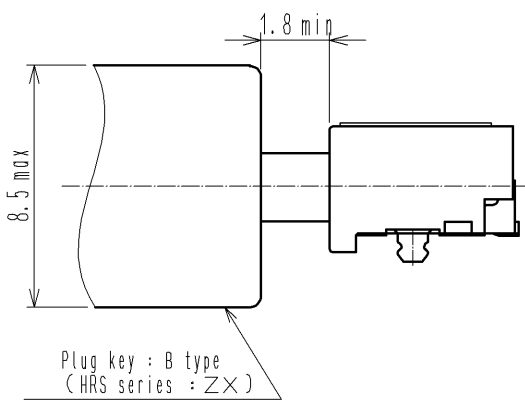
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Section of mated condition



- Remark) 1. Co-planarity is within 0.08mm
2. Plating
Contact area: Palladium -Nickel 0.75um MIN + Gold 0.05um MIN
Lead area: Gold 0.05um MIN
Under plating: Nickel 2um MIN
3. Opening area shape: Conform to USB2.0 standard
4. Per reel: 3000 pcs

3	Stainless-Steel	Specialty surface finishing	6	PE	Top cover tape
2	Copper-Alloy	2	5	PS	Embossed carrier tape
1	LCP	Black UL94V-0	4	PI	Pick & place tape
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
UNITS mm	SCALE 5 : 1	COUNT △	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED
DATE	APPROVED : RI. TAKAYASU	11.06.20	DRAWING NO.	EDC3-126992-02	
	CHECKED : TA. ASO	11.06.20	PART NO.	ZX62WD1-B-5PC	
	DESIGNED : WR. YAMADA	11.06.20	CODE NO.	CL242-0121-3-00	
	DRAWN : WR. YAMADA	11.06.20			