

2007/04/18 01:28:44 MY.NAGASHIMA

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TO


COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△ 1	DIS-E-001172	Y.T	H.K	07.01.06	△				
△					△				
APPLICABLE STANDARD		USB2.0 SPECIFICATION							
RATING	OPERATING TEMPERATURE RANGE	0 °C TO +50 °C			STORAGE TEMPERATURE RANGE	-20 °C TO +60 °C			
	VOLTAGE	AC 30V			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	USB CABLE ① SIGNAL : AWG 28 MAX ② POWER : AWG 26 MAX			
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING		CONFIRMED VISUALLY.						×	×
<b>ELECTRIC CHARACTERISTICS</b>									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			30 mΩ MAX.			×	×
INSULATION RESISTANCE		500 V DC.			100 MΩ MIN.			×	×
VOLTAGE PROOF		100 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×
CAPASITANCE		MEASURE ADJACENT TWO CONTACTS AT 1000±10Hz AC VOLTAGE.			2 pF MAX			×	—
<b>MECHANICAL CHARACTERISTICS</b>									
INSERTION AND WITHDRAWAL FORCES		A MAXIMUM RATE OF 12.5mm/min. MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 8 N MIN.			×	—
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.			×	—
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.			×	—
RANDOM VIBRATION		FREQUENCY 50 TO 2000 Hz, AT 15 min, FOR 3 DIRECTIONS.						×	—
SHOCK		490m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.						×	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
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.			×	—
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.			×	—
DRY HEAT		EXPOSED AT +85±2 °C, 96 h. (MATING APPLICABLE CONNECTOR)			NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
				Y.TAKEUCHI	Y.TAKEUCHI	H.KOBAYASHI	A.SUZUKI		
				06.11.13	06.11.13	06.11.13	06.11.13		
Unless otherwise specified, refer to USB2.0 or EIA364									
Note QT:Qualification Test AT:Assurance Test X:Applicable Test									
<b>HRS HIROSE ELECTRIC CO., LTD.</b>				SPECIFICATION SHEET			PART NO. ZX40-B-5S-UNIT		
CODE NO.(OLD) CL		DRAWING NO. ELC4-125857			CODE NO. CL242-0002-4			1/2	

FORM No.231-1

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SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
COLD	EXPOSED AT $-40 \pm 2$ °C, 96 h. (MATING APPLICABLE CONNECTOR)	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
CORROSION SALT MIST 	EXPOSED IN 5 % SALT WATER, 35 °C FOR $48 \pm 4$ h.	NO HEAVY CORROSION.	×	—
RESISTANCE TO SOLDERING HEAT	TEMPERATURE : $350 \pm 10$ °C TIME : $5 \pm 1$ sec AT SOLDERING PARTS	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	Y.TAKEUCHI	Y.TAKEUCHI	H.KOBAYASHI	A.SUZUKI	
	06.11.13	06.11.13	06.11.13	06.11.13	

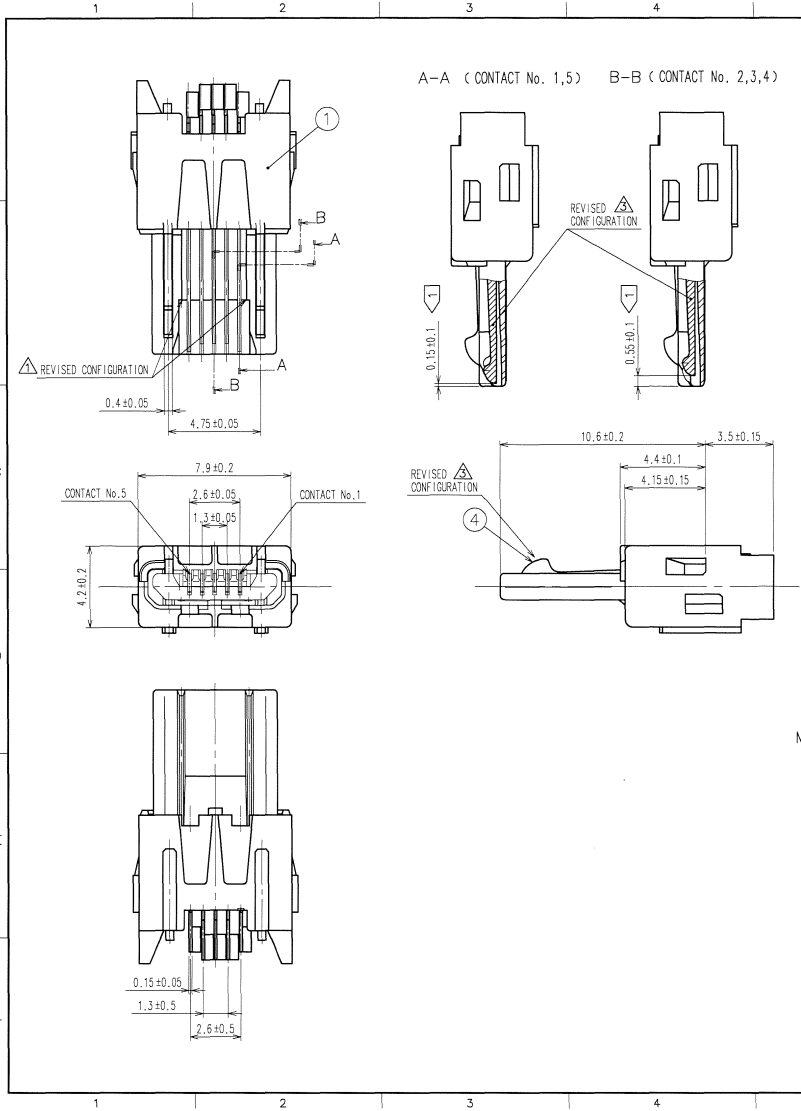
Unless otherwise specified, refer to USB2.0 or EIA364

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

 <b>HIROSE ELECTRIC CO., LTD.</b>	<b>SPECIFICATION SHEET</b>	PART NO. <b>ZX40-B-5S-UNIT</b>
CODE NO.(OLD) CL	DRAWING NO. ELC4-125857	CODE NO. CL242-0002-4
		2

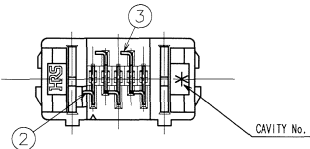
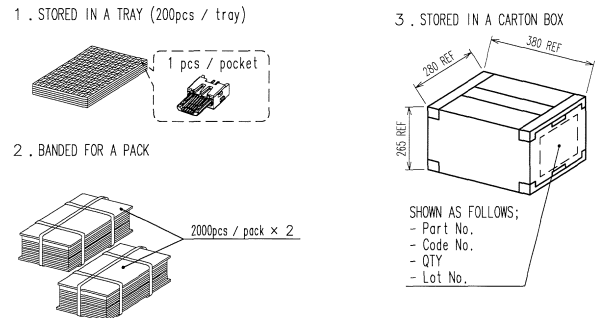
FORM No.231-2

TO



COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	DIS-E-00118B	Y.T	H.K	06.12.27					
1	DIS-E-001243	Y.T	K.I	07.01.29					
2	DIS-E-001409	Y.T	K.I	07.03.24					

Fig - 1 PACKING SPECIFICATION -In the case of 4000 pcs-



NOTES 1 This is wire soldering type. Please confirm the dimensions shown in the figure after soldering. The position of the contacts might shift when excessive force is put during assembly. Please refer to the assembly manual, ETAD-E2699, for detail.

2 Plating  
 - under plating Nickel 2 μm min.  
 - contact area Gold 0.75 μm min.  
 - lead area Tin 1 μm min.

2	COPPER ALLOY	2	4	STAINLESS STEEL			
1	PA	BLACK . UL94V-0	3	COPPER ALLOY			
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS		
CODE NO. (OLD)		DRAWN		DESIGNED	CHECKED	APPROVED	RELEASED
		Y. TAKEUCHI		Y. TAKEUCHI	H. KOBAYASHI	A. SUZUKI	
		06.11.13		06.11.13	06.11.13	06.11.13	
DRAWING NO.		PART NO.					
EDC3-125857		ZX40-B-5S-UNIT					
SCALE		CODE NO.					
5 : 1		CL242-0002-4					
UNITS		HRS					
mm		HIROSE ELECTRIC CO., LTD					

