



**THE DATASHEET OF
XCZU7EG-2FBVB900I**



2011/12/15 03:54:57 CAROL. TRIBBLE

DRAWING FOR REFERENCE: This is subject to change without notice

TO

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
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 +85 °C			
	VOLTAGE	AC 30V			OPERATING HUMIDITY RANGE	— % TO — %			
	CURRENT	① 1 A/pin ① SIGNAL ONLY ② 1.8 A/pin (PIN No.1,5) ② POWER APPLY 0.5 A/pin (PIN No.2-4)			APPLICABLE CABLE	—			
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING		CONFIRMED VISUALLY.						×	×
ELECTRICAL CHARACTERISTICS									
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			×	—
MECHANICAL CHARACTERISTICS									
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 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.			×	—
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 AXIAL 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 AXIAL DIRECTIONS.						×	—
SHOCK		490m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES.						×	—
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. (MATED WITH 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) (MATED WITH APPLICABLE CONNECTOR)			NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
HIROSE will not guarantee the performance on these specifications in case this product will be mated with the others which is not HIROSE's.					<i>Fong Wong</i>	<i>M. Shimoyama</i>	<i>J. Aso</i>	<i>N. Mizoguchi</i>	
Unless otherwise specified, refer to USB2.0 or EIA364					08.4.14	08.4.14	08.04.14	08.04.15	
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. ZX80-B-5P		
CODE NO.(OLD)		DRAWING NO. ELC4-126723			CODE NO. CL242-0051-0			1/2	



TO

SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
DRY HEAT	EXPOSED AT +85±2 °C, 96 h. (MATED WITH APPLICABLE CONNECTOR)	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
COLD	EXPOSED AT -40±2 °C, 96 h. (MATED WITH APPLICABLE CONNECTOR)	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER, 35 °C FOR 48 h. (LEFT UNDER UNMATED CONDITION)	NO HEAVY CORROSION.	×	—
SOLDERABILITY	SOLDERING POINT IMMERSED IN SOLDER BATH OF 255±5 °C, 5sec.(USING TYPE R FLUX)	SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	—
RESISTANCE TO SOLDERING HEAT	A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES	NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.	×	—

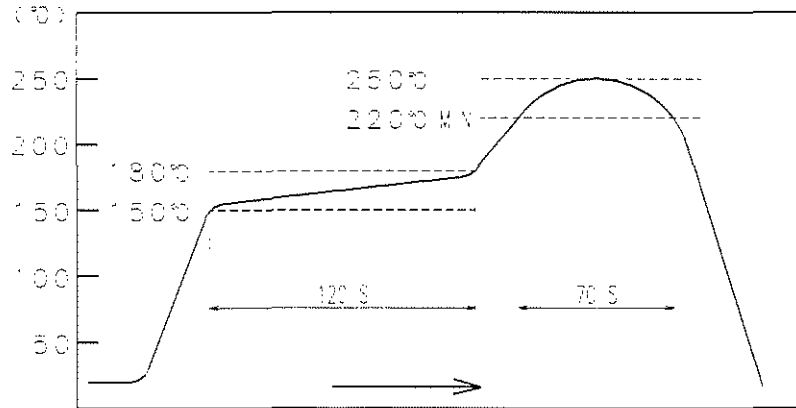


FIG - 1 RESISTANCE TO SOLDERING HEAT
(TEMPERATURE AT TOP SURFACE OF CONNECTOR)

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

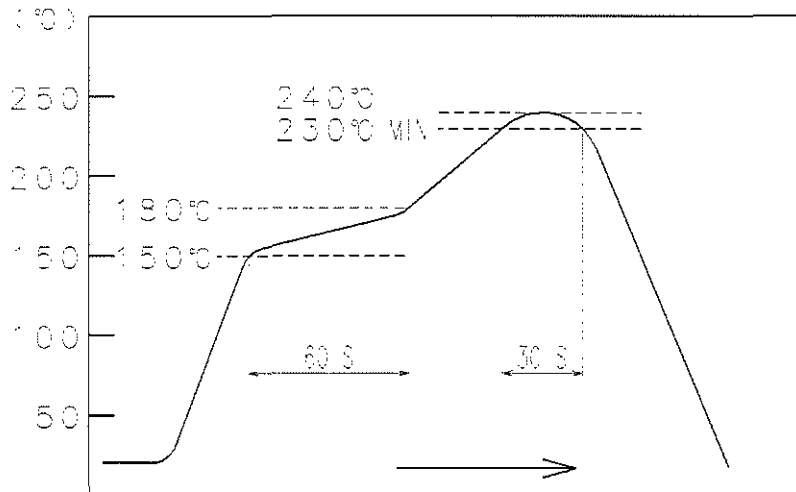


FIG - 2 RECOMMENDED REFLOW PROFILE TEMPERATURE

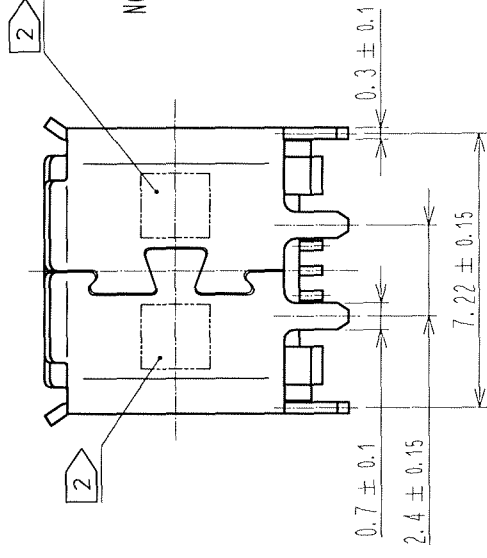
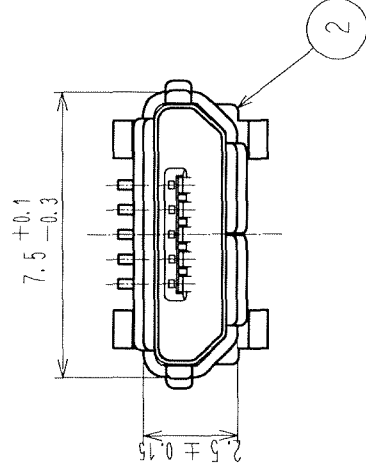
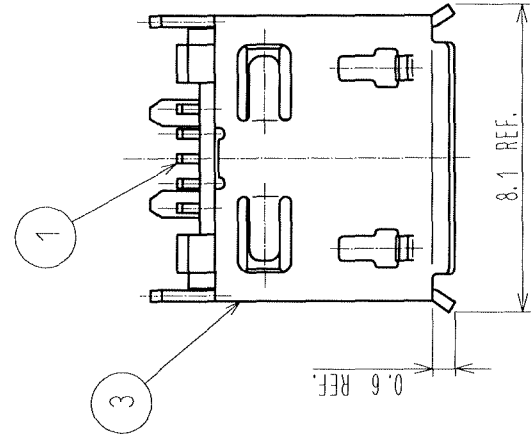
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Unless otherwise specified, refer to USB2.0 or EIA364					

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

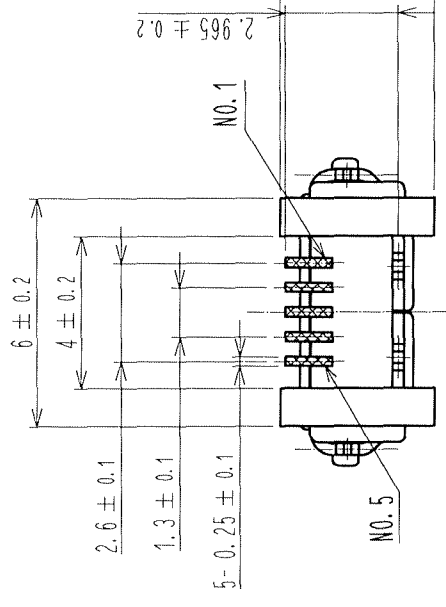
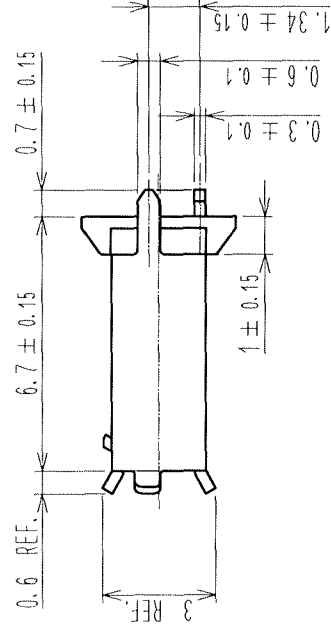
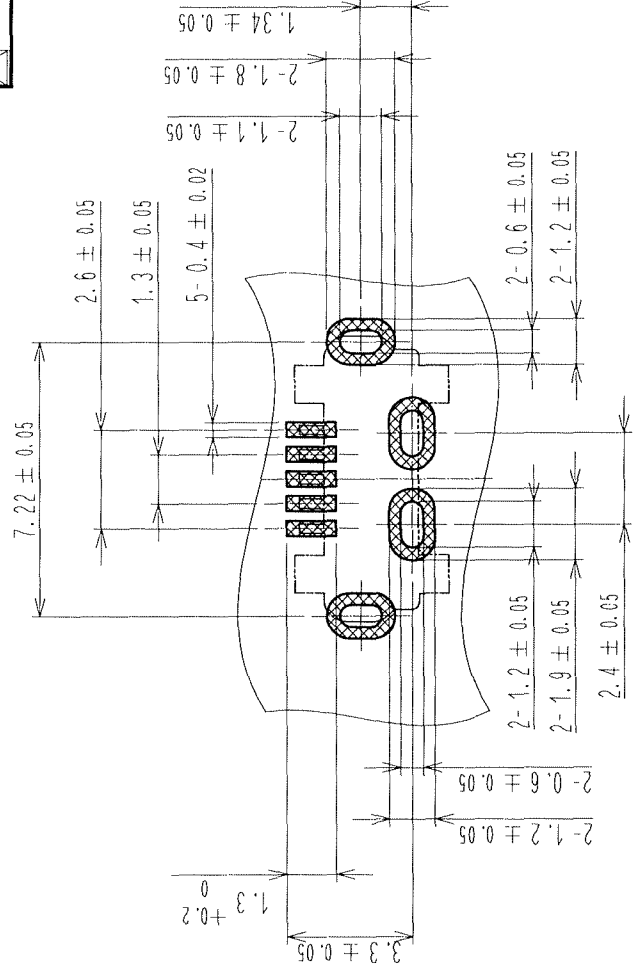
HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. ZX80-B-5P
CODE NO.(OLD)	DRAWING NO. ELC4-126723	CODE NO. CL242-0051-0
		2/2



TO	



PCB LAYOUT



NOTE 1 CO-PLANARITY IS WITHIN 0.08.

2 LOT No. SHALL BE INDICATED AT THE POSITION AS SHOWN.

3 PLATING

CONTACT AREA : GOLD PLATE 0.75 μm MIN.

LEAD AREA : GOLD PLATE 0.05 μm MIN.

UNDER PLATING : NICKEL 2 μm MIN.

4 PACKING

300 PCS PER TRAY.

5 AS FOR PART No.3. THE PERFORMANCE REMAINS GOOD EVEN IF THERE IS A RUBBING WOUND BY THE ASSEMBLY PROCESS. AND THE PERFORMANCE REMAINS GOOD EVEN IF THERE IS A DIFFERENCE OF THE COLOR OF PLATING WITH THE MANUFACTURING LOT.

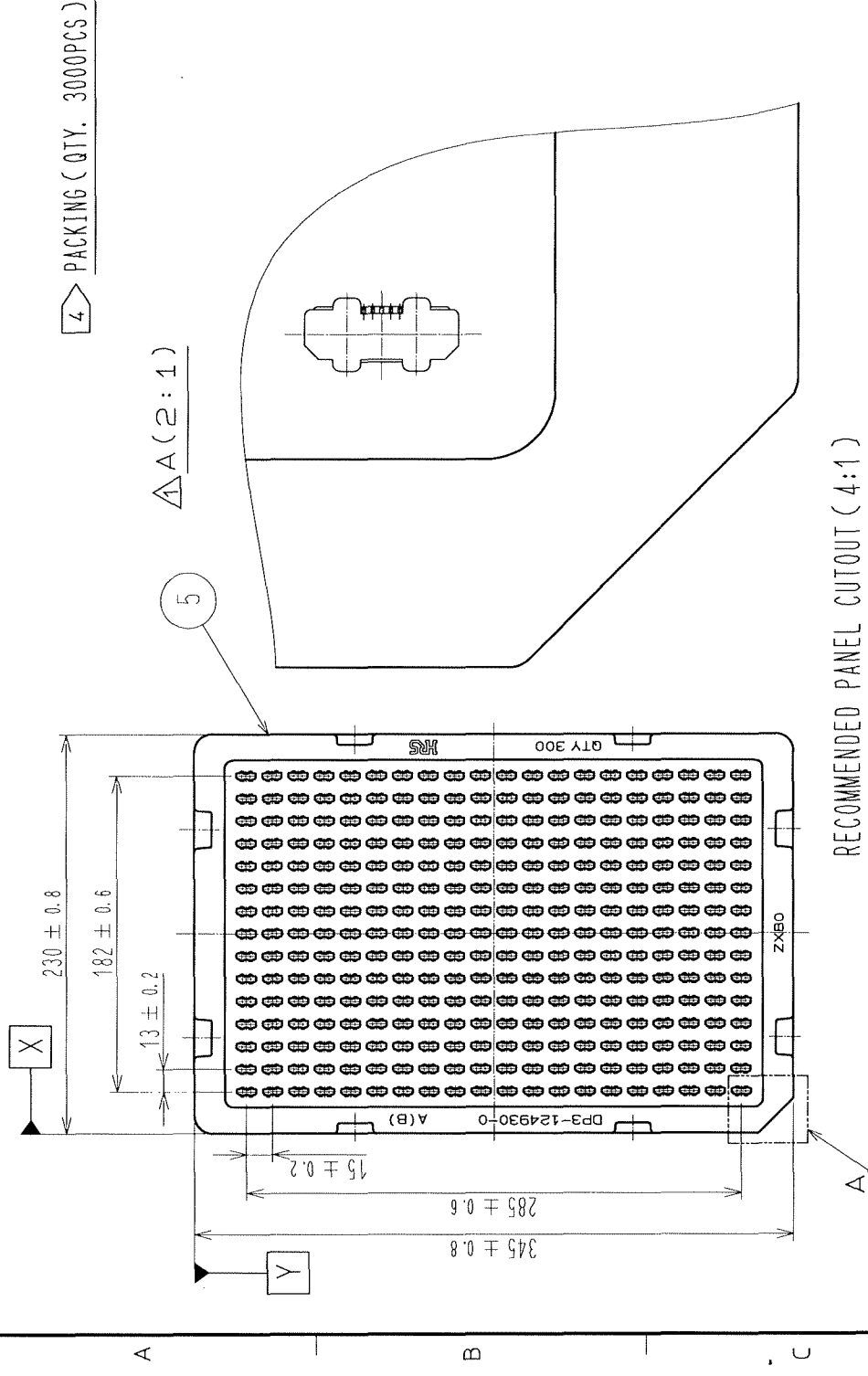
COUNT	DESCRIPTION OF REVISIONS
1	DIS-E-002592

2	LCP	BLACK
1	COPPER ALLOY	3
NO.	MATERIAL	FINISH, R
CODE NO.(OLD)		
DRAWING NO. EDC3-12		
SCALE	5 : 1	
UNITS	mm	

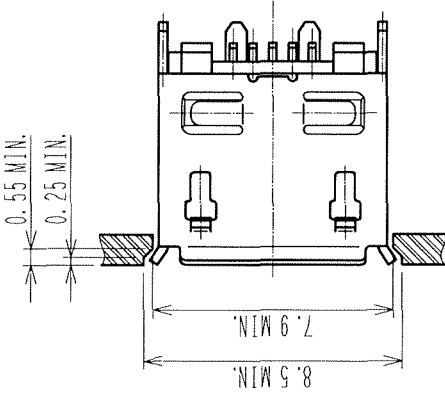
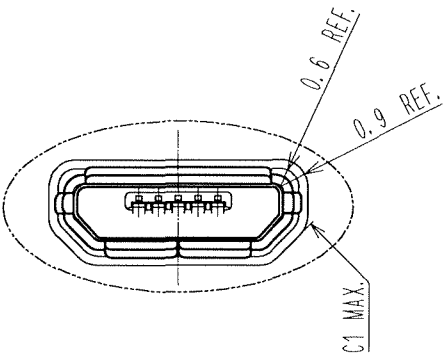
HRS

HIROSE ELECT

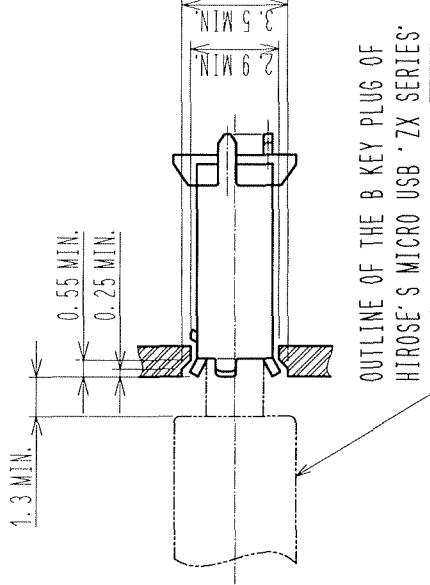
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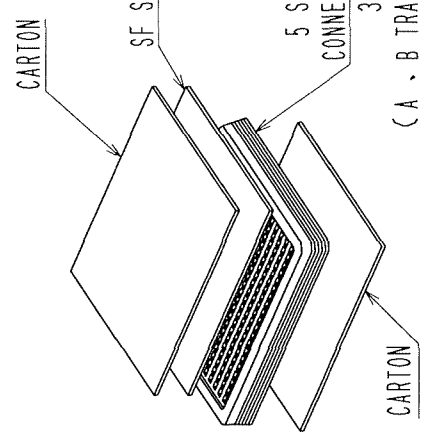
RECOMMENDED PANEL CUTOUT (4:1)



MATED WITH CORRESPONDING PLUG(4:1)



1. STORE CONNECTORS IN A TRAY.



3. STORE 2 (STORE A BOX) THE BOX BY

GUMM

PACKING BOX (CARTON BOX)

NO.	MATERIAL	FINISH, R
CODE NO.(OLD)		
DRAWING NO. EDC3-12		
SCALE	UNITS	
1 : 4	mm	



HIROSE ELECT

COUNT	DESCRIPTION OF REVISIONS

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