

APPLICABLE STANDARD		USB3.0 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	30V AC	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 TO 4,No.6 TO 10)		
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
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		100 mA (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 10 N MIN.(INITIAL)		X	—
MECHANICAL OPERATION		10000 TIMES INSERTIONS AND EXTRACTIONS. MATING SPEED - MECHANICALLY OPERATED : 500 CYCLES / h or - MANUALLY OPERATED : 200 CYCLES / h		1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 10 m Ω 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 (6 HOURS IN TOTAL) FOR 3 AXIAL DIRECTIONS.		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 (45 MINUTES IN TOTAL) FOR 3 AXIAL DIRECTIONS.				X	—
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				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 93±3 %, UNDER 7 CYCLES (168 h) (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
DRY HEAT		EXPOSED AT 85°C±2°C, 96 h. (MATING APPLICABLE CONNECTOR)		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
COLD		EXPOSED AT -40°C±3°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	—
SOLDERBILITY		SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 255°C±2°C, 5 sec.		SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER 95% MIN.		X	—
RESISTANCE TO SOLDERING HEAT		A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES.		NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.		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 USB3.0, 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-127240-31-00	
HRS	SPECIFICATION SHEET			PART NO.		ZX360D-B-WD-10P (31)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL242-0507-0-31	△ 1/2

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SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
	<div><p>A line graph showing temperature in degrees Celsius (°C) on the y-axis (0 to 250) against time in seconds (S) on the x-axis. The profile starts at 150°C, rises to 180°C (120 S), then to 250°C (70 S), and finally to 220°C MIN. A dashed line indicates 250°C.</p></div>				
	FIG - 1 <u>RESISTANCE TO SOLDERING HEAT</u> (TEMPERATURE AT TOP SURFACE OF CONNECTOR)				
	RECOMMENDED PROFILE REFERS TO FIG - 2. (TEMPERATURE AT SMT LEADS)				
	<div><p>A line graph showing temperature in degrees Celsius (°C) on the y-axis (0 to 250) against time in seconds (S) on the x-axis. The profile starts at 150°C, rises to 180°C (60 S), then to 240°C (30 S), and finally to 230°C MIN. A dashed line indicates 240°C.</p></div>				
	FIG - 2 <u>RECOMMENDED REFLOW PROFILE TEMPERATURE</u>				
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