
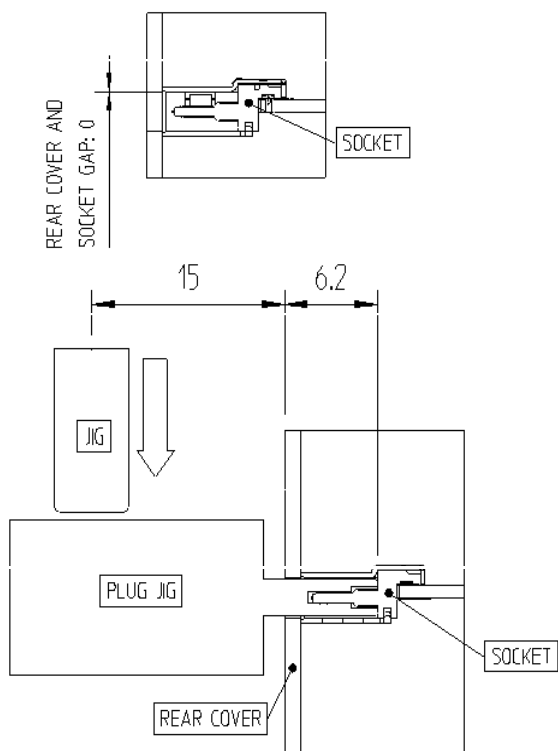


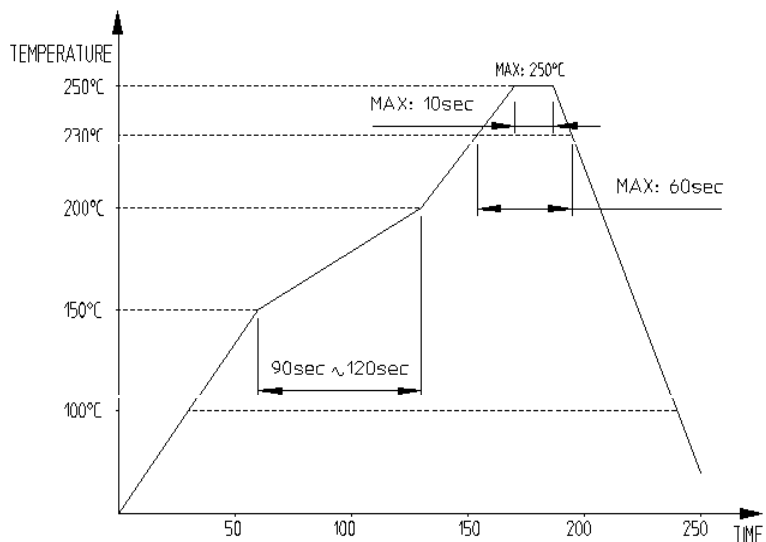
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
APPLICABLE STANDARD									
RATING	VOLTAGE	20V AC	STORAGE TEMPERATURE RANGE	-10℃ TO +60℃					
	CURRENT	collectively 5A to VBUS pins (A4, A9, B4 B9) and 1.25 A applied to the VCONN pin(B5 of the plug connector) with the return path through the corresponding GND pins(A1,A12,B1,B12) A minimum current of 0.25 A shall also be applied individually to all the other contacts.	OPERATING TEMPERATURE RANGE	-30℃ TO +85℃					
SPECIFICATIONS									
ITEM	TEST METHOD			REQUIREMENTS	QT	AT			
CONSTRUCTION									
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.	0	0			
MARKING	CONFIRMED VISUALLY				0	0			
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE	100mA(DC OR 1000Hz)			40 mΩ MAX.	0	-			
INSULATION RESISTANCE	500 V DC.			100 MΩ MIN.	0	-			
VOLTAGE PROOF	100 V AC FOR 1Min			NO FLASHOVER OR BREAKDOWN					
MECHANICAL CHARACTERISTICS									
DURABILITY (MATING CYCLES)	MATED 10,000 TIMES - Mechanically Operated : 200 cycle/h - Insertion Force, Extraction Force is the maximum speed: 12.5mm/min			① CONTACT RESISTANCE - DEFORMATION : WITHIN 10 mΩ OF BEFORE, AFTER MATED 10,000 TIMES. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ INSERTION FORCE - INITIAL OF TEST : 5 ~ 20 N ④ EXTRACTION FORCE - INITIAL OF TEST 8 ~ 20 N - AFTER OF TEST 6 ~ 20 N (WITH VIRGIN PLUG)	0	-			
VIBRATION	FREQUENCY 10 TO 55Hz, HALF AMPLITUDE 0.75mm, - m/s ² FOR 2hr IN 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	0	-			
SHOCK	490m/s ² , DURATION OF PULSE 11ms AT 3 TIMES IN 3 DIRECTIONS.				0	-			
WRENCHING STRENGTH	AFTER INSERTION OF PLUG, MEASURE THE FORCE UNTIL BE DAMAGED 4 DIRECTIONS. (UP, DOWN,LEFT, RIGHT), SPEED 12.5mm/Min, APPLY A FORCE AT THE POINT 15MM SOCKET FROM EDGE.[Fig1]			① 50N MIN	0	-			
Remark				DRAWING	DESIGN	CHECK	APPROVAL	RELEASED	
<div style="border: 2px solid red; padding: 5px; display: inline-block;"> DRAWING FOR REFERENCE This is subject to change without notice </div>				C.E.LIM 15.09.24	C.E.LIM 15.09.24	S.M.LIM 15.09.24	T.S.KANG 15.09.24		
<small> ㉞) QT: Qualification Test AT: Assurance Test O: Applicable Test </small>									
HIROSE KOREA CO.,LTD			SPECIFICATION SHEET			PART NO. CX70M-24P2			
CODE NO.(OLD) CL		DRAWING NO. ELC4-632081			CODE CL 6240-0003-4			1/2	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE $-55^{\circ}\text{C} \sim 85^{\circ}\text{C}$, 10CYCLES (MATING APPLICABLE CONNECTOR)	① CONTACT RESISTANCE : 70mΩ MAX ② INSULATION RESISTANCE : 100 MΩ MIN. ③ VOLTAGE PROOF. - NO FLASHOVER OR BREAKDOW ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	0	-
DAMP HEAT (STEADY STATE)	EXPOSED AT $+85^{\circ}\text{C}$, 85%RH FOR 120 hr. (MATING APPLICABLE CONNECTOR)		0	-
DRY HEAT	EXPOSED AT $+85\pm 2^{\circ}\text{C}$ FOR 96 ± 4 Hr. (MATING APPLICABLE CONNECTOR)		0	-
COLD	EXPOSED AT $-40\pm 2^{\circ}\text{C}$ FOR 96 ± 4 Hr. (MATING APPLICABLE CONNECTOR)		0	-
CORROSION SALT MIST	EXPOSED AT 5% SALT WATER SPRAY FOR 48hr.	① CONTACT RESISTANCE : 70mΩ MAX ② NO EVIDENCE IF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	0	-
SOLDERABILITY	SOLDERED AT SOLDERER TEMP. 255°C FOR 5sec	COVERED WITH SOLDER THAT MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED	0	-
REFLOW TEST (CO-PLANARITY)	REFLOW PROFILE[Fig2] PEAK 250°C MAX. FOR 10 SEC. 2 TIMES.	① BEFORE REFLOW 0.08 MAX. ② AFTER REFLOW 0.08MAX. ③ NO DEFORMATION OF MOLD ④ NO SHAPE OF BLISTER AND POPCORN	0	-



[Fig1]. WRENCHING STRENGTH
(USING USB TYPE-C STANDARD REFERENCE TEST FIXTURE)



[Fig2]. REFLOW TEMPERATURE

Remark	DRAWING	DESIGN	CHECK	APPROVAL	RELEASED
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