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REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					
<b>APPLICABLE STANDARD</b>											
<b>RATING</b>	<b>Operating Temperature Range</b>		-40°C to 105°C (Note1)			<b>Storage Temperature Range</b>		-10°C to +60°C (Note3)			
	<b>Operating Humidity Range</b>		95% RH max (Note2)			<b>Storage Humidity Range</b>		15% to 70% (Note3)			
	<b>Current</b>		1.25A max. for each power pin (i.e. A1, A4, A9, A12, B1, B4, B9, B12) 0.25A for the other pins								
	<b>Voltage</b>		20V AC/DC		<b>Applicable Connector</b>		AU1M*A-24S-HU/C(805)				
<b>Test Description</b>			<b>Test Procedure</b>				<b>Test Requirement</b>			<b>QT</b>	<b>AT</b>
Visual Inspection			USCAR-2, 5.1.8 Visual&Camera Inspection.				No damage before & after testing			O	O
Connector Cycling			USCAR-30, 5.1.7 Completely mate and un-mate connector pair 10 times				No physical damage.			O	-
<b>ELECTRICAL CHARACTERISTICS</b>											
Low Level Contact Resistance		EIA 364-23 Measure at 20mV max open circuit at 100mA (DC or 1000Hz)				Initial : 40mΩ max After test : 50mΩ max				O	-
Insulation Resistance		EIA 364-21 500V DC with unmated and mated condition.				100MΩ min.				O	-
<b>MECHANICAL CHARACTERISTICS</b>											
Connector-Connector Mating/Unmating Force		USCAR-2, 5.4.2, Class 3 (Note4) Measure the force required to mate and unmate connector at a rate not to exceed 50mm/min.				① Mating force: 75N max ② Unmating Force(Lock Disengage): 75N max ③ Unmating Force(Lock engage): 110N min ④ Lock Disengage Force: 10N < F < 70N				O	-
Polarization Feature Effectiveness		USCAR-2, 5.4.4 Engage the connector halves at a rate not to exceed 50mm/min to attempt incorrectly mating. Hold force(60N≤F≤150N) for 3 seconds.				No physical damage.				O	-
Vibration		USCAR-2, 5.4.6, V1 class (Note 5). ①Frequency range : 5~1,000Hz ②Random duration : 8hours/axis ③Acceleration : 1.81g				L.L.C.R 50mΩ Max. Discontinuity≤1μs.				O	-
Mechanical Shock		USCAR-2, 5.4.6, V1 class (Note 5). ①Shocks per Axis : 10 ②Wave shape : Half sine wave ③Direction : Positive ④Duration : 5~10ms ⑤Acceleration : 35g				L.L.C.R 50mΩ Max. Discontinuity≤1μs.				O	-
Audible Click		USCAR-2, 5.4.7 Ambient noise levels : 30 ~ 50 dB.				Informative.				O	-
Remarks Note 1: Include the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before pcb on board, after pcb board , operating temperature and humidity range is applied for interim storage during transportation. Note 4: USCAR-25, TABLE 3.1 Hand Plug Connector Design Guidelines. Note 5: USCAR-2, 5.4.1.3 Vibration Classification. Note 6: USCAR-2, 5.1.4.1 Temperature Classification.											
				<b>DRAFT</b>	<b>DESIGN</b>	<b>CHECK</b>	<b>APPROVAL</b>	<b>RELEASE</b>			
				I.K.PARK	M.Y.HAN	S.M.LIM	S.M.LIM				
				25.01.21	25.01.21	25.01.21	25.01.21				
NOTE) QT : QUALIFICATION TEST, AT : ASSURANCE TEST, O : Applicable Test											
DWG NO			CL NO			PART NO					
ELC4-633777-05			CL 6696-0004-4-805			AU1FRA-24P(805)					
						<b>PRODUCT SPECIFICATION</b>				1 2	

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Test Description	Test Procedure	Test Requirement	QT	AT
<b>ENVIRONMENTAL CHARACTERISTICS</b>				
Thermal Shock	USCAR-2, 5.6.1 Temperature Class 2 (Note 6). 100cycles, -40°C~+100°C	L.L.C.R 50mΩ Max. Discontinuity ≤ 1 μs.	O	-
Temp./Humidity Cycling	USCAR-2, 5.6.2 Temperature Class 2 (Note 6). -40°C~+100°C, 40cycles	L.L.C.R 50mΩ Max.	O	-
High Temperature Exposure	USCAR-2, 5.6.3 Temperature Class 2 (Note 6). 100°C, 1008hrs.	L.L.C.R 50mΩ Max.	O	-
Solderability	EIA 364-52 Dwell in 245±5°C of the solder bath for 5 sec.	New uniform coating of solder shall cover minimum of 95 % of the surface Being immersed.	O	-
Resistance To Soldering Heat	Reflow time Number of reflow cycles : 2cycles MAX. Duration above 220°C, 60sec. MAX. Peak temperature : 250°C 10sec. MAX.	No deformation of case of excessive looseness of the terminals.	O	-
NOTE) QT : QUALIFICATION TEST, AT : ASSURANCE TEST, O : Applicable Test				
DWG NO ELC4-633777-05		CL NO CL 6696-0004-4-805	PART NO AU1FRA-24P(805)	
		<b>PRODUCT SPECIFICATION</b>		2 / 2