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Rev.	Count	Descript	ion of rev.	BY	CHKD	Date	Rev.	Count	Description of rev.	BY	CHKD	Date	
_	-	Preliminar	y drawing	KYI	LHJ	22.11.04							
Â	-	RE-2-2146	(M.P release)	KYJ	LHJ	23.03.10							
Annl	lianhla at	on dond	Universal Se	rial Bus	Type-C	Cable an	d Conne	ctor Spec	cification Release 2.1				
дррі	licable st	.anuaru	Universal Se	niversal Serial Bus Type-C Connectors and Cable Assemblies Compliance Document Revision 2.1b									
		Voltage	48V AC/DC	:									
Do:	tina		1.25A max	1.25A max. for each power pin (i.e., A1, A4, A9, A12, B1, B4, B9, B12)									
Ka	ting	Current	1.25A max	1.25A max. for Vcon pin (i.e., B5)									
			0.25A max. for the others.										
Operating condition -40° C~+105°C(Including temp. rise), 95% RH max.(Non-condensing)							K.(Non-condensing)						
Storage condition -10℃~+60℃(With packing), 15%~70% RH													

	SPECIFICATIONS									
No	TEST ITEM	TEST METH	OD		Т	EST REQUIR	EMENT	QT	AT	
CONS	STRUCTION									
4	Cara and Europeination	EIA 364-18			NI-			0		
1	General Examination	Visual inspection			NO b	hysical damag	je	0	0	
ELEC	TRICAL CHARACTERIS	TICS								
		EIA 364-23								
		Measure at 20mV max open cir	cuit							
2	Low level contact	at 100mA max. (DC or 1000Hz)		Initia	al : 40mΩ max	<	0		
-	resistance	4-wire measurement is required	d and		Afte	r test : $50m\Omega$	max	O	_	
:		the resistance of PCB termination	on							
		shall be deducted from the read	ling.							
		EIA 364-20								
3	Dielectric	Measure per Method B with			No c	disruptive disch	narge.	0	_	
	Withstanding Voltage	unmated condition.	nmated condition.				. To die aparte diodiai ger			
		100V AC RMS for 1 minute at s	ea level.							
4	Insulation resistance	EIA 364-21		100	MΩ min.		0	_		
		500V DC with unmated and ma				_				
		IEC60529, EIA-364-70, method								
		A current of 6.0 A shall be appl	•							
<u>-</u>		VBUS pins (i.e., pins A4, A9, B4, and B9) and 1.25 A				Townsonstance vise shall not				
5	Temperature Rise	applied to the Vconn pin (i.e., E			Temperature rise shall not			0	-	
[]		connector) with the return path	-		exce	ed 30℃				
5		corresponding GND pins (i.e., p								
		B12). A minimum current of 0 applied individually to all the ot		be						
MECL	IANICAL CHADACTEDI	<u> </u>	nei contacts.							
"	HANICAL CHARACTERI	I			T (A.)	-10 -6	. FN 20N	_		
6	Insertion force	EIA 364-13	n		Initia	al & after test	: 5IN ~ 2UIN	0	-	
7	Extraction force	Measure at 12.5mm/minute mi	n.		Testitio	al : 8N ~ 20N		-		
'	EXITACTION TOICE		n			r test: 6N ~ 2	ON	0	-	
		Measure at 12.5mm/minute mi	11.			r test : 6N ~ 2 n virgin plug)	.UIV			
8	Durability	EIA 364-09			` _	hysical damag	10			
0	Darability	Mated 10,000 times			140 1	niyalcar darriag	,	0	-	
-	1	riacca 10,000 times						<u> </u>		
Rema	arks		Drawn	Design	ned	Checked	Approved	Re	elease	

Y.I.KIM S.K.JANG H.J.LEE H.J.LEE 22.06.29 22.06.29 22.06.29 22.06.29 $[Note] \ QT: Qualification \ test, \ AT: Assurance \ test, \ O: Applicable, \ -: Not \ applicable$

Drawing No. Part No.

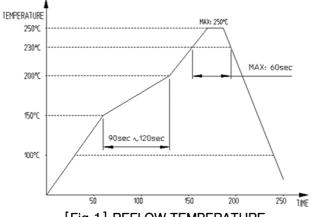
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			Mechanically operated: 500cycles/hr				l
			Mating stroke : 2.75mm				l
			Insertion, extraction force shall be measured				l
			at a maximum speed of 12.5mm/min				l
		Random Vibration	EIA 364-28				l
			Test Condition VII, Test Letter D	 No physical damage. 			l
2	9		Mated specimens to 3.10 G's RMS	② No discontinuity of over	0	_	l
ב	9		between 20 to 500Hz	than 1µs.			l
5			15 minutes in each of 3 mutually	tilaii 1µ5.			l
D D			perpendicular planes.				l

ENV	ENVIRONMENTAL CHARACTERISTICS										
10	Temperature Life	EIA 364-17, Method A 105℃ without applied voltage for 120 hours.	No physical damage.	0	-						
11	Cyclic Temperature and Humidity	EIA 364-31 25±3°C at 80±3% RH for 1 hour. 65±3°C at 50±3% RH for 1 hour. Thermal ramp: 0.5 hour Number of cycles: 24 cycles	No physical damage.	0	-						
12	Thermal Shock	EIA 364-32 10 cycles -55°C and +105°C	No physical damage.	0	-						
13	Solderability	EIA 364-52 Dwell in 245±5℃ of the solder bath for 5 sec.	Solder coverage shall be 95% min. of the immersed surfaces.	0	-						
14	Salt Spray	EIA 364-26 5% of NaCl in 35℃ for 48 hours.	No corrosions that affect to the connector operation.	0	-						
15	High Temperature and Humidity	EIA-364-31 High-temperature 85℃/85% RH for 120 hours.	No physical damage. No change to performance.	0	-						
12 13 14 15 16	Mixed Flowing Gas	EIA 364-65 Measure Environment 30℃/70%RH CL2 10±3ppb, No2 200±50ppb, H2S 10±5ppb, SO2 100±20ppb Expose half of sample mated for 1/3 days and then unmated for 2/3 days .The others are exposed mated for full 7 days test period.	No corrosions that affect to the connector operation.	0	-						
17	Reflow Heat	Reflow profile [Fig.1] Peak 250°C max 2 times.	No deformation of mold No shape of blister and popcorn	0	-						



[Fig.1] REFLOW TEMPERATURE

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable									
Drawing No.	CL No.		Part No.						
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Test Sequence Table												
No	No Test item Test Group											
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1	Examination of product	1, 14	1, 6	1, 6	1, 6	1, 6	1, 3	1, 6	1, 6	1, 6	1, 4	
2	Low Level Contact Resistance	3, 13	3, 5	3, 5	3, 5	3, 5		3, 5	3, 5	3, 5		
3	Dielectric Withstanding Voltage	4, 12										
4	Insulation Resistance	5, 11										
5	Temperature Rise										3	
6	Insertion force	6, 10										
7	Extraction force	7, 9										
8	Durability	8										
9	Random Vibration		4									
10	Temperature Life			4								
11	Cyclic Temperature and Humidity				4							
12	Thermal Shock					4						
13	Solderability						2					
14	Salt Spray							4				
15	High Temperature and Humidity								4			
16	Mixed Flowing Gas									4		
17	Reflow Heat	2	2	2	2	2		2	2	2	2	

REMARKS

1) Numbers in the table above indicate the sequence corresponding to each test group.

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable									
Drawing No.	CL No.		Part No.						
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