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1 SCOPE			

I. SCOPE

This Product Specification covers the 2.50 mm (pitch) printed circuit board (PCB) connector

series used to provide electrical connection between the battery and the PCB of mobile phone

2. PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

PRODUCT NAME: 2 circuits battery connector

SERIES NUMBER(S): WB2515H-XXXXXX

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

WB2515H-XXXXX								
NO	DIMENSIONS	MATERIAL	PLATING&COLOR					
1	Housing	LCP	UL94V-0 NATURAL					
4	terminal	copper alloy	MATTE TIN or Au PLATING					

3. APPLICABLE DOCUMENTS AND SPECIFICATIONS

EIA-364. MIL-STD-202.

MIL-STD-1344A

4. RATINGS

4.1 VOLTAGE

20 Volts RMS at sea level

4.2 CURRENT

3 A PER PIN

4.3 TEMPERATURE

Operating: - 40° C to + 85° C

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5. PERFO 5.1 APPE 5.2 ELEC	RMAN ARANC CTRICAI	CE E REQUIREMENTS L REQUIREMENTS				
ITEM		DESCRIPTION	TEST CONDITIC	DN	REQUI	REMENT
	Visual an	nd	Visual, dimensional and		Meets require	ements of
1	dimensio	onal	functional per		product draw	ing. No
	inspectio	ons	applicable quality inspect	ion plan.	physical	
			EIA 364-18		damage.	
			Mate connectors: apply a			
2	2 Contact Resistance		maximum voltage of 20 mV and a		40 milliohms MAXIMUM	
			current of 100mA.		[Initial]	
			MIL-STD-1344A, Metho	d 3002.1		
			Un-mate & un-mount cor	nnectors:		
			apply a voltage of 500 VI	DC for 1		
3	3 Insulation Resistance		minute between adjacent'		100 M Ω MI	NIMUM
			terminals and between terminals			
			to ground. MIL-STD-202F,			
			Method 302			
			Un-mate connectors: app	ly a		
			voltage of 100 VAC for 1	minute		
4	4 Withstanding Voltage		between adjacent terminals and		No breakdow	'n
		between terminals to ground.				
			MIL-STD-202F, Method	301		
			Mate battery and measure	e the		
5	Tempera	ture Rise	temperature rise of contact, when		30°C Max	
			rated current is passed. Pe	er		
			EIA-364-70 method 1			

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REQUIREMENT

Document Name SPEC-WB2515H-XXXX Date F Revise 5.3 MECHANICAL REQUIREMENTS ITEM DESCRIPTION ITEM DESCRIPTION Mate connectors up to3000 cycles at a maximum

6	Durability	rate of 200 cycles per hour prior to Environmental	Contact Resistance :40
		Tests. EIA-364-09	milliohms MAXIMUM
		Mate connectors and subject to the following	
7	Vibration (Sinusoidal)	vibration conditions, for a period of 2 hours in each	Contact Resistance :40
	IEC68-2-6Fc	of 3 mutually perpendicular axes. Frequency:	milliohms MAXIMUM
		10-55-10Hz Displacement: 1.52mm(peak-peak)	Discontinuity < 1 μ S
		EIA 364-28	
		Mate connectors and subject to the following	
		shock conditions. 3 shocks shall be applied	
		along 3 mutually perpendicular axes, passing	Contact Resistance :40
8	Mechanical Shock	DC 1mAcurrent during the test. (Total of	milliohms MAXIMUM
		18shocks)	Discontinuity < 1 μ S
		Test Pulse : Half Sine	
		Peak Value: 490m/s2 (50G)	
		Duration : 11ms	
		MIS-STD-202 Method 213B	
	Normal Force	Apply a perpendicular force a 0.80 mm	80g Min
9	(Per Terminal)	deflection	

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5.4 EN	VIKONMENTAI	L REQUIREMENTS			
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT		
	Terminal Retention	Axial pullout force on the terminal in the	0.2Kgf/PIN		
10	Force	housing at a rate of 25 ± 3 mm per minute.	Minimum retention force		
		The card shall be mated and exposed to the	Contact Resistance :40		
		following condition for 25 cycles.	milliohms &		
11	hermal Shock	1 cycle: a) -40 ± 3 °C for 30 minutes	Visual: No Damage		
	Thermal Shock	b) +85 \pm 2°C for 30 minutes			
		Transit time shall be within 3 minutes,			
		Recovery time 1~2 hours			
		EIA-364-32			
		Mate connectors: At a temperature of 25°	Contact Resistance :40		
		C~55° C and relative humidity of 90%~95%	milliohms &		
		for 240hrs(10 cycles).	Dielectric Withstanding		
12	Humidity	(6 hours dwell at the low temperature, 6 hours	Voltage:		
		ramp from the low temperature to high	No Breakdown		
		temperature, 6 hours dwell at the high	at 100 VAC &		
		temperature, 6 hours ramp from the high	Insulation Resistance:		
		temperature to low temperature.)	100 Meg-ohms MINIMUM		
		EIA-364-31	&		
			Visual: No Damage		
		SMT solder tails into the molten solder (held	Contact solder Pad shall		
13	Solder Ability	at $245\pm5^{\circ}$ C)up to 0.5 mm from the tip of tails	have a		
		for 3 ± 0.5 seconds.	Min. 95% solder coverage		
		Mated and exposed to the following salt mist			
		conditions. At the completion of the exposure			
		period, salt deposits shall be removed by	Appearance: no damage		
14	Salt Spray Test	agentle wash or dip in running water.NaCl	Contact resistance:		
		solution: Concentration : $5 \pm 1\%$ Spray time :	Contact Resistance :40		
		48h	milliohms maximum		
		Temperature : $35\pm2^{\circ}$ C			
		EIA-364-26 condition B			



6. PACKAGING

See packaging specification and package assembly drawing. Parts shall be packaged to protect against damage during handing, transit and storage.

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7. OTHER INFORMATION

	Test Group								
Test or Examination	А	В	C	D	Е	F	G	Н	Ι
				Те	est Seque	ence (a)			
Examination of Product	1,7	1,7	1,6	1,3	1,3	1,5	1,3	1,5	1,5
Contact Resistance		2,6	2,5			2,4		2,4	2,4
(Low Level)									
Insulation Resistance	2,5								
Withstanding Voltage	3,6								
Temperature Rise				2					
Durability		4							
Vibration			3						
Mechanical Shock			4						
Normal Force		3,5							
Thermal Shock						3			
Humidity (Cycling Test)	4							3	
Solder-ability							2		
Salt Spray Test									3
Solder Resistance					2				
Sample Size	5	5	5	5	5	5	5	5	5

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