Description	Document No.	Date	Rev.
Polymer Lithium Ion 3040127SH5C	PS-PLIB-3040127SH5C -E01	2014-02-13	1.0
Prepared by	Checked by	Approved by	

PRODUCT SPECIFICATION

Rechargeable Polymer Lithium Ion Battery Pack

Model: 3040127SH5C

	Received Marking
Customer's Name	:
Signature	:
Company Stamp	:
Company Stamp	:

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1. Scope

This specification is applied to GEB Lithium Ion Polymer Battery manufactured by General Electronics Battery Co., Ltd.

2. Product and Model

2.1 Product: Polymer Lithium Ion Battery

2.2 Model: 3040127SH5C

3. Ratings

Item		Rating	Note
2.1. Canadita	Nominal	555mAh	Standard charge, 0.5C
3.1 Capacity	Minimum	550mAh	discharge, 2.3V/cell cut off
3.2 Nominal Voltage		7.4V	Average voltage at 1.0C
5.2 Nominar Voltage		7.11	discharge
3.3 Standard Charge	Condition	1C(550mAh),8.4V(CC-CV),	
		5mA	
3.4 Maximum Charge	e Current	1C(550mAh)	
3.5 Maximum Charge	e Voltage	8.5V	
3.6 Maximum Discha	rge Current	5C(2.75A)	Continuous Current
3.7 Discharge Cut-of	arge Cut-off Voltage 6.0V		
3.8 Voltage as of ship	oment	7.4~7.8V	
3.9 Battery Pack Wei	ght	Approx. 30.0g	
3.10 Operating	Charge	0~45℃	90%RH Max.
Temperature	Discharge	-20~60°C	90%RH Max.
2 11 54	1 month	-20~45°C	Recommended storage
3.11 Storage	3 month	-20~35°C	temperature: 20°C or less, at
Temperature	1 year	-20~20°C	the shipment state

4. Outline Dimensions and Appearance

4.1 Outline Dimensions

See attached drawing for 1540127SH5C and 3040127SH5C battery pack

Thickness: Max.1.5mm (Measured with weighting 300gf at 23±2°C)

Width: 40.0 ± 0.5 mm (measured with weighting 300gf at 23 ± 2 °C)

Length: 127.0±0.5mm (without lead film)

This thickness will be swelling when high temperature storage or operation in high temperature.

4.2 Appearance

There shall be no such defect as remarkable scratches, breaks, crack, discoloration, leakage, or deformation, which may adversely affect commercial value of the cell.

Form No.: GEB-06A 2/6

Description	Document No.	Date	Rev.
Polymer Lithium Ion 3040127SH5C	PS-PLIB-3040127SH5C -E01	2014-02-13	1.0
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5. Performance

5.1 Standard Test Condition

Test should be conducted with new batteries within one month after shipment from our factory and the cells shall not be cycled more than five times before the test. Test condition shall be at $23\pm2^{\circ}$ C and $65\pm20\%$ RH as long as there is no doubt. The humidity can be any condition unless it affects the test results.

5.2 Measuring Instrument or Apparatus

5.2.1 Dimension Measuring Instrument

The dimension measurement shall be implemented by instruments with equal or more precision scale of 0.02mm.

5.2.2 Voltmeter

Standard class specified in the national standard or more sensitive class having inner impedance more than $10 \text{ K}\Omega/V$

5.2.3 Ammeter

Standard class specified in the national standard or more sensitive class. Total external resistance including ammeter and wire is less than 0.01Ω .

5.2.4 Impedance Meter

Impedance shall be measured by a sinusoidal alternating current method (1kHz LCR meter).

5.3 Standard Charge Definition

Standard charge is defined by charging for 2.5hrs at 8.4V of constant voltage and 1.0C(550mAh) of constant current.

5.4 Rest Period

Unless otherwise defined, 10min rest period after full charge, 10min rest period after discharge.

5.5 Standard Discharge Definition

Standard Discharge is defined by discharging at 1C (550mAh) down to 6.0V.

5.6 Initial Performance Test

Item	Test Condition	Criteria
Open-Circuit Voltage	The open-circuit voltage shall be measured within 24	8.4V or more
	hours after standard charge. The Impedance shall be measured in an alternating	$60.0 \mathrm{m}\Omega$ or less
AC Impedance Resistance	current method (1kHz LCR meter) after standard	(bare cell)
	charge at 23±2°C.	
Initial Capacity	The capacity on 1.0C(550mAh)discharge to 4.6V shall be measured after standard charge at $23\pm2^{\circ}$ C.	550mAh or more

Form No.: GEB-06A 3/6

Description	Document No.	Date	Rev.
Polymer Lithium Ion 3040127SH5C	PS-PLIB-3040127SH5C -E01	2014-02-13	1.0
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5.7 Electrical Performance

5.7.1 Discharge Rate Capabilities

Discharge Capacity is measured with the various currents in under table and 6.0V cut-off after rated charge.

Discharge Current	1.0C(550mAh)	5C(2750mA)
Discharge Capacity	100%	85%

5.7.2 Temperature Dependence of Capacity (Discharge)

Cells shall meet the discharge capacity requirements listed in the below table under respective discharge temperatures. The capacities are to be measured with constant discharge current as following (6.0V cut-off) after standard charge at $23\pm2^{\circ}$ C. The battery should be placed about 2h at $23\pm2^{\circ}$ C before charge. Before discharge, it should be placed about 1h at $23\pm2^{\circ}$ C.

Discharge Temperature	-10℃	0℃	25℃	45℃
C- rate	0.2C	0.2C	1.0C	1.0C
Discharge Capacity	60%	85%	100%	95%

Note: If charge temperature and discharge temperature are not the same, the interval for temperature change comes to 2 hours.

6. Period of Warranty

The period of warranty is six mouths from the date of shipment. GEB guarantees to give a replacement in case of cells with defects proven due to manufacturing process instead of the customer's abuse and misuse.

7. Shipment

Cells shall be shipped in 50% state of charge.

8. Amendment of this Specification

This specification is subject to change with prior notice.

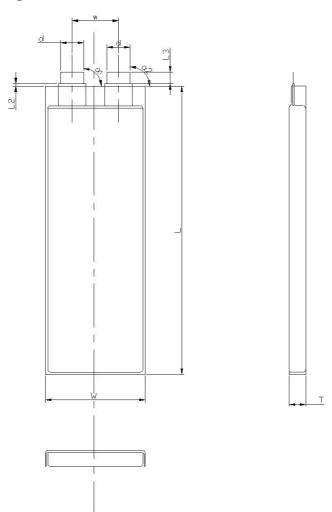
9. Others

Any matters that this specification doesn't cover should be conferred between the customer and GEB.

Form No.: GEB-06A 4/6

Description	Document No.	Date	Rev.
Polymer Lithium Ion 3040127SH5C	PS-PLIB-3040127SH5C -E01	2014-02-13	1.0
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Fig.1 Dimensional Drawing of 1540127SH5C

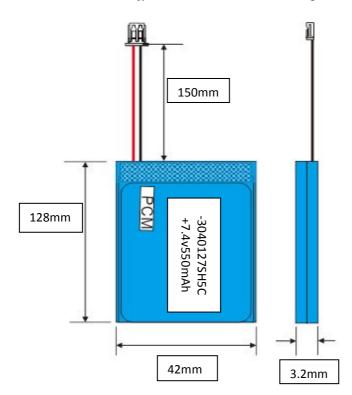


Item	Specification
Т	≤1.5mm
W	40.0±0.5mm
L	127.0±0.5mm
L2	0.5-1.0mm

Form No.: GEB-06A 5/6

Description	Document No.	Date	Rev.
Polymer Lithium Ion 3040127SH5C	PS-PLIB-3040127SH5C -E01	2014-02-13	1.0
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2.Dimension Drawing of 3040127SH5C Battery Pack:

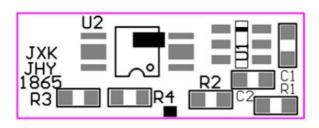


Connector: JST-PH2.0

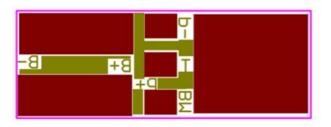
Wire: AWG26 PVC: Blue

Wire Length: 15mm(Black and Red)

SMT drawing:



Back of PCB.



Form No.: GEB-06A 6/6