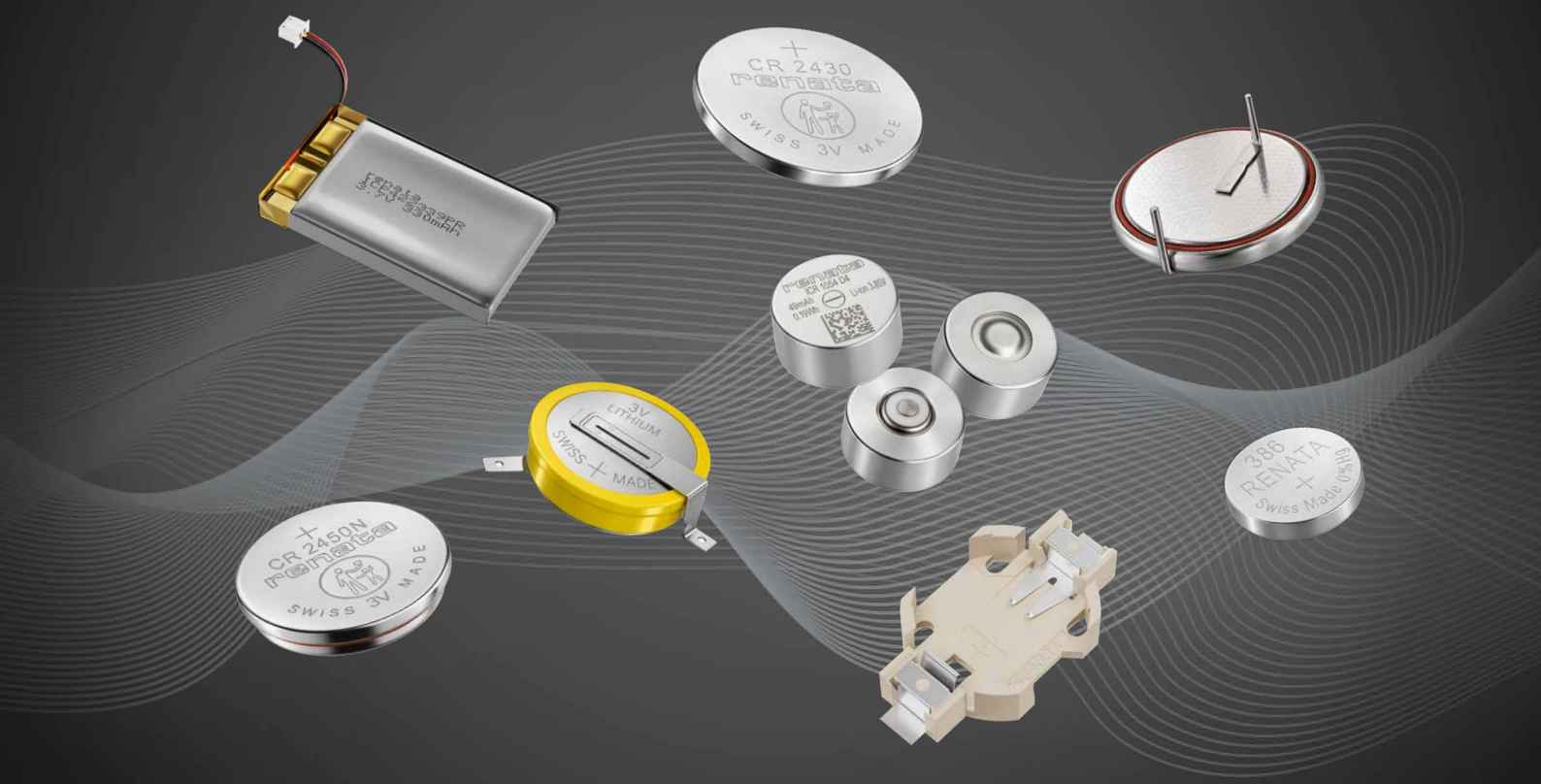
Our full range of industrial products.

We are in charge of batteries. We provide power to millions of different devices all over the world with the highest-quality batteries.



A COMPANY OF THE SWATCH GROUP

renata batteries

Future
Performance.
Today.

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Energy for all sectors.

Batteries for industrial needs.

We offer suitable energy solutions for the most diverse areas based on numerous product technologies. We have been able to support our partners in the medical technology, automotive industry, watch industry, tracking and many other applications with our existing, or with our customised solutions.

Swiss precision and expertise

In addition to a broad portfolio of standard batteries, we also develop individualized products with quality Swiss precision and our years of experience, precisely matching to your requirements.

Our strengths

- High quality
- Excellence in service & manufacturing
- Flexible customized solutions

Medical

Medical equipments form the backbone of medical treatment in the world today. Renata, now more than ever, is supplying the power for these products being used in many hospitals, medical practices, in care facilities or even at home. These devices provide invaluable services in the diagnosis, monitoring and treatment of diseases and other conditions.

Hearing Aids

Medical Devices

Medical Wearables





Industry

Industrial companies across various business fields, such as robotics, automobile engineering and IoT. They aim for maximum reliability and performance in their products. Two key trends are driving this: Miniaturization and Mobility. Devices are becoming smaller and increasingly interconnected – whether man-to-machine or machine-to-machine. As a result, more industrial products require customized micro-battery solutions for reliable power.

Home Solutions
Internet of Things
Metering Devices
POS-Systems
Remote Applications
Security Applications
Tracking Devices

Consumer Goods

Over 40 different kinds of silver-oxide coin cells, both high drain and low drain, 16 different lithium micro-batteries and all the current sizes in zinc-air batteries for hearing aid needs: Renata offers a complete comprehensive assortment of batteries for all consumer needs. From the quartz watch, to remote controllers, on to automobile keys, and medical equipment – here you will find the right power supply for every product.

Consumer Devices
Hearing Aids
Home Solutions
Internet of Things
Remote Applications
Security Applications
Watches
Wearables



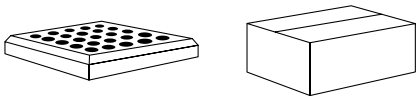
Visit our website www.renata.com
for further information.

3V Lithium coin cells

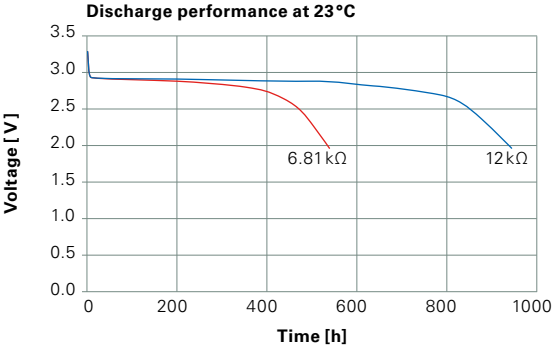
Features

- Low self discharge
- Shelf life up to 10 years at 23 °C
- More than 1000 variations of tabbed cells available
- Custom tabbed models and assemblies possible
- Industrial bulk available
- UL certified: file MH 14002

Industrial bulk



Typical discharge curve



Standard specifications

Chemical system	Li/MnO_2
Nominal voltage	3V
Capacity range	25–950 mAh

Customized solutions







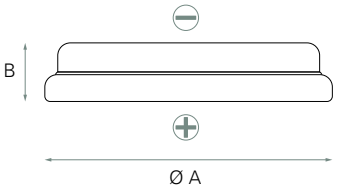


Find details about our lithium coin cells
on our website www.renata.com



3V Lithium coin cells





Dimensions and electrical characteristics

Model	Renata part	Nominal voltage [V]	Capacity [mAh]	Operating temp. [°C]	Self discharge at 23 °C per year	Average weight [g]	Diameter [mm]	Height [mm]
CR1025	700263	3	30	–40 / +85	< 1%	0.6	10.0	2.5
CR1216 MFR	100924	3	25	–30 / +85	< 1%	0.7	12.5	1.6
CR1220 MFR	100925	3	35	–30 / +85	< 1%	0.8	12.5	2.0
CR1225	700281	3	48	–40 / +85	< 1%	0.9	12.5	2.5
CR1616	700287	3	50	–40 / +85	< 1%	1.1	16.0	1.6
CR1620	700291	3	68	–40 / +85	< 1%	1.2	16.0	2.0
CR1632	700296	3	137	–40 / +85	< 1%	1.8	16.0	3.2
CR2016 MFR	100270	3	90	–30 / +85	< 1%	1.7	20.0	1.6
CR2025 MFR	100271	3	165	–30 / +85	< 1%	2.5	20.0	2.5
CR2032 MFR	100272	3	225	–30 / +85	< 1%	2.8	20.0	3.2
CR2320	700344	3	150	–40 / +85	< 1%	2.7	23.0	2.0
CR2325	700348	3	190	–40 / +85	< 1%	3.0	23.0	2.5
CR2430	700359	3	285	–40 / +85	< 1%	4.1	24.5	3.0
CR2450 MFR*	101152	3	620	–30 / +85	< 1%	6.2	24.5	5.0
CR2450N	700377	3	540	–40 / +85	< 1%	5.9	24.5	5.0
CR2477N	700391	3	950	–40 / +85	< 1%	8.3	24.5	7.7

* Currently under development. Planned launch: Q3 2027.

Find details about our lithium coin cells
on our website www.renata.com

3V Lithium coin cells – Tabbed

Features

- Excellent solderability thanks to solder plated areas
- Suitable for wave soldering

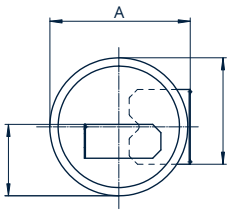
Specifications

- Solder contacts stainless steel AISI 301 or ISOTAN (SMD), thickness 0.15 mm
- Tin-plated solder area lead free (>99.9 % Sn) plated throughout, thickness min. 2.5 µm. Solderability according to MIL-STD 883C, method 2003.3

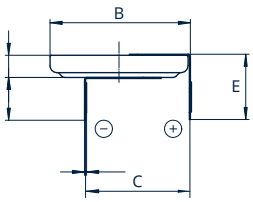
3V Lithium coin cells – Tabbed

Horizontal assembly with three tabs

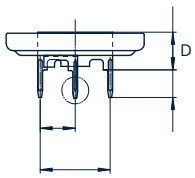




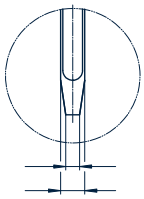
From below



Side view



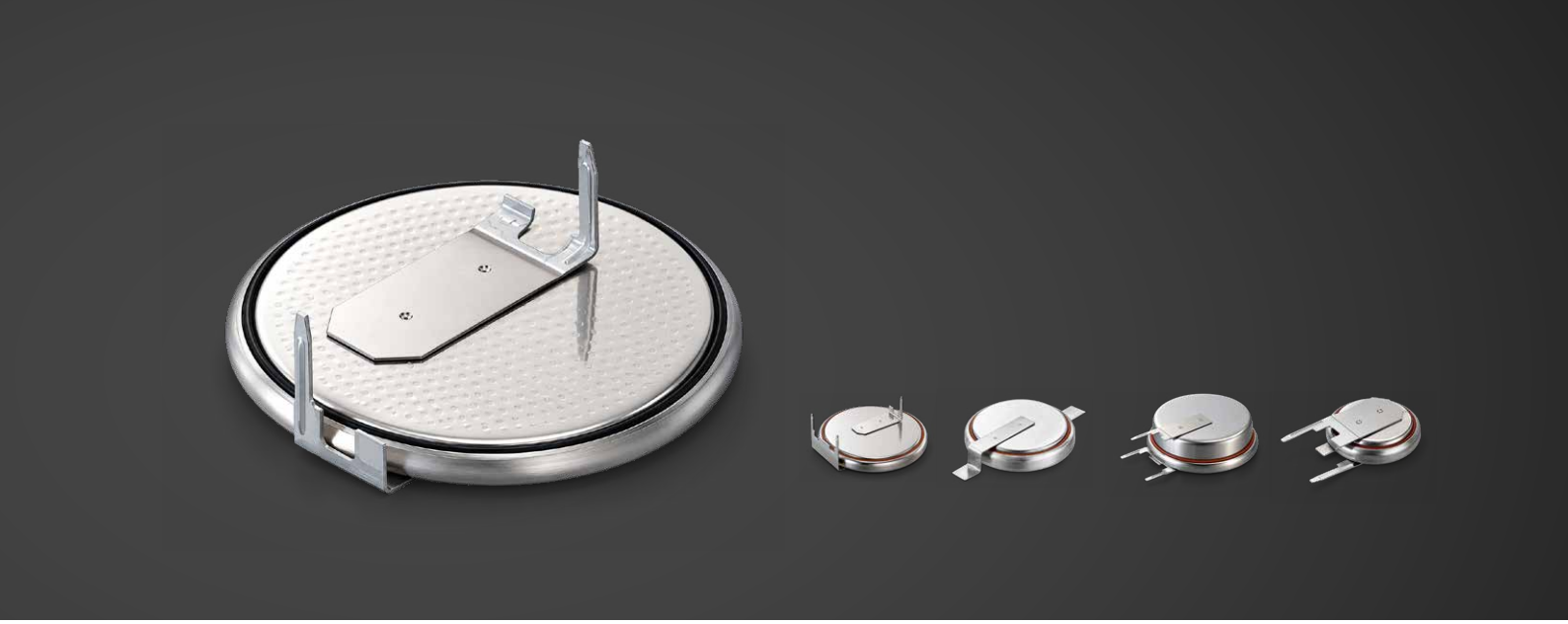
Side view



Dimensions and electrical characteristics

Model	Renata part	Nominal capacity [mAh]	Dimensions [mm] A	B	C	D	E	Weight [g]
CR1632RH-LF	701238	137	16.0	16.35	15.2	5.45	9.45	2.0
CR2016 MFR RH	701594	90	20.0	20.35	15.2	3.95	7.95	2.0
CR2025 MFR RH	701597	165	20.0	20.35	15.2	4.85	8.85	2.6
CR2032 MFR RH	701604	225	20.0	20.35	15.2	5.45	9.45	3.1
CR2032 MFR RH1	701605	225	20.0	20.35	17.8	5.45	9.45	3.1
CR2032 MFR RH2	701724	225	20.0	20.35	20.4	5.45	9.45	3.0
CR2325RH-LF	701087	190	23.0	23.35	17.8	4.85	8.85	3.3
CR2430RH-LF	701092	285	24.5	24.85	17.8	5.45	9.45	4.4
CR2430RH1-LF	701093	285	24.5	24.85	20.4	5.45	9.45	4.4
CR2450NRH-LF	701097	540	24.5	24.85	17.8	7.35	11.35	6.2
CR2450RH1-LF	701098	540	24.5	24.85	20.4	7.35	11.35	6.2
CR2477NRH-LF	701103	950	24.5	24.85	17.8	10.05	14.05	8.5

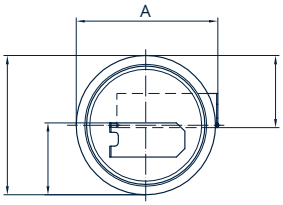
Find details about our tabbed lithium coin cells on our website www.renata.com



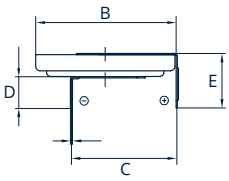
3V Lithium coin cells – Tabbed

Horizontal assembly with two tabs

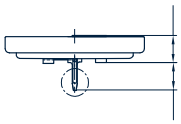




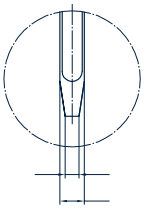
From below



Side view



Side view



Dimensions and electrical characteristics

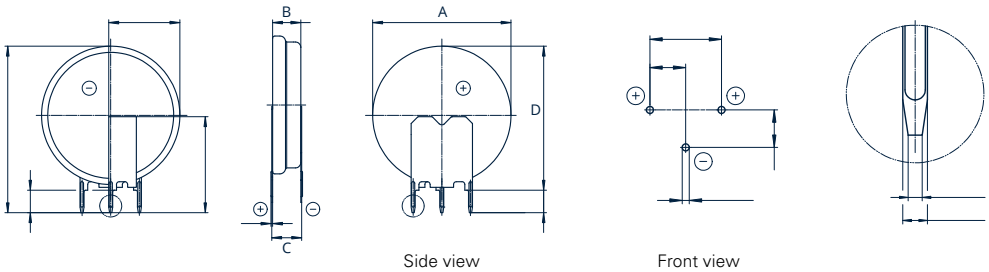
Model	Renata part	Nominal capacity [mAh]	Dimensions [mm] A	B	C	D	E	Weight [g]
CR1216 MFR FH	703928	25	12.5	12.85	11.00	2.4	6.3	1.0
CR1220 MFR FH	703933	35	12.5	12.85	11.00	2.8	6.7	1.1
CR1225FH-LF	701065	48	12.5	12.85	11.00	3.3	7.2	1.1
CR1616FH-LF	701382	50	16.0	16.35	12.70	2.4	6.3	1.3
CR1620FH-LF	701067	68	16.0	16.35	12.70	2.8	6.7	1.4
CR1632FH-LF	701069	137	16.0	16.35	11.00	3.9	7.8	2.0
CR1632FH1-LF	701070	137	16.0	16.35	15.20	3.9	7.8	2.0
CR2016 MFR FH	701591	90	20.0	20.35	15.20	2.4	6.3	1.9
CR2016 MFR FH1	701593	90	20.0	20.35	20.40	2.4	6.3	1.9
CR2025 MFR FH1	701596	165	20.0	20.35	20.40	3.3	7.2	2.7
CR2032 MFR FH	701599	225	20.0	20.35	15.20	3.9	7.8	3.0
CR2032 MFR FH1	701601	225	20.0	20.35	20.40	3.9	7.8	3.0
CR2325FH-LF	701085	190	23.0	23.35	20.40	3.3	7.2	3.2
CR2430FH-LF	701089	285	24.5	24.75	20.40	3.9	7.8	4.3
CR2450NFH-LF	701095	540	24.5	24.85	20.40	5.8	9.7	6.1
CR2477NFH-LF	701100	950	24.5	24.85	20.40	8.5	12.4	8.4

Find details about our tabbed lithium coin cells on our website www.renata.com

3V Lithium coin cells – Tabbed

Vertical assembly with three tabs





Side view

Front view

Dimensions and electrical characteristics

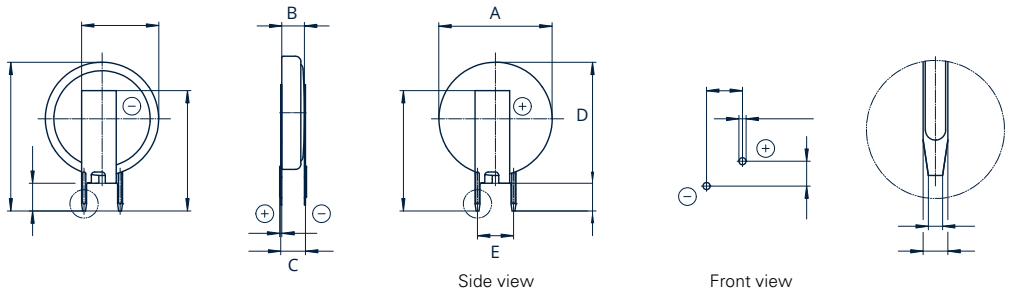
Model	Renata part	Nominal capacity [mAh]	Dimensions [mm] A	B	C	D	Weight [g]
CR2025 MFR RV	701598	165	20.0	2.5	2.8	21.0	2.8
CR2032 MFR RV	701607	225	20.0	3.2	3.5	21.0	3.1
CR2325RV-LF	701088	190	23.0	2.5	2.8	24.0	3.3
CR2430RV-LF	701094	285	24.5	3.0	3.3	25.5	4.4
CR2450NRV-LF	701099	540	24.5	5.0	5.3	25.5	6.2
CR2477NRV-LF	701104	950	24.5	7.7	8.0	25.5	8.5

Find details about our tabbed lithium coin cells on our website www.renata.com

3V Lithium coin cells – Tabbed

Vertical assembly with two tabs





Side view

Front view

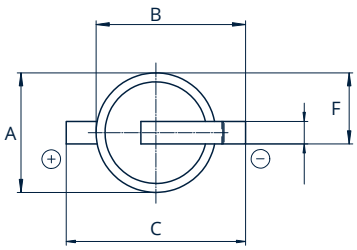
Dimensions and electrical characteristics

Model	Renata part	Nominal capacity [mAh]	Dimensions [mm] A	B	C	D	E	Weight [g]
CR1025FV-LF	701060	30	10.0	2.5	2.8	11.0	5.08	0.8
CR1025FV1-LF	701061	30	10.0	2.5	2.8	11.0	5.08	0.8
CR1216 MFR FV	703929	25	12.5	1.6	1.9	13.6	5.08	1.0
CR1220 MFR FV	703934	35	12.5	2.0	2.3	13.6	5.08	1.1
CR1225FV-LF	701066	48	12.5	2.5	2.8	13.5	5.08	1.1
CR1616FV-LF	701381	50	16.0	1.6	1.9	17.0	5.08	1.3
CR1620FV-LF	701068	68	16.0	2.0	2.3	17.0	5.08	1.4
CR1632FV-LF	701071	137	16.0	3.2	3.5	17.0	5.08	2.0
CR2016 MFR FV	701726	90	20.0	1.6	1.9	21.1	10.5	2.0
CR2032 MFR FV	701606	225	20.0	3.2	3.5	21.0	10.5	3.0
CR2325FV-LF	701086	190	23.0	2.5	2.8	24.0	10.5	3.2
CR2430FV-LF	701091	285	24.5	3.0	3.3	25.5	10.5	4.3
CR2450NFV-LF	701096	540	24.5	5.0	5.8	25.5	10.5	6.1
CR2477NFV-LF	701101	950	24.5	7.7	8.0	25.5	10.5	8.4

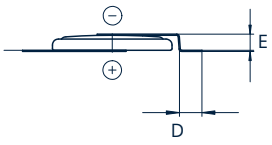
Find details about our tabbed lithium coin cells on our website www.renata.com

Horizontal assembly with two tabs (SMD)

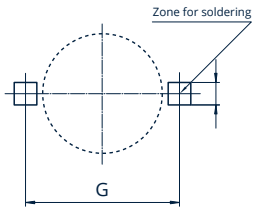




Top view



Side view



Layout top view

Dimensions and electrical characteristics

Model	Renata part	Nominal capacity [mAh]	Dimensions [mm] A	B	C	D	E	F	G	Weight [g]
CR1025SM	701960	30	10.0	13.0	16.0	2.0	2.8	6.5	14.0	0.8
CR1216 MFR SM	703932	25	12.5	15.75	19.0	2.0	1.9	7.75	17.0	1.0
CR1220 MFR SM	703935	35	12.5	15.75	19.0	2.0	2.3	7.75	17.0	1.1
CR1225SM	701964	48	12.5	15.75	19.0	2.0	2.8	7.75	17.0	1.2
CR1616SM	701965	50	16.0	20.0	24.0	3.0	1.9	9.5	21.0	1.3
CR1620SM	701966	68	16.0	20.0	24.0	3.0	2.3	9.5	21.0	1.4
CR1632SM	701967	137	16.0	20.0	24.0	3.0	3.5	9.5	21.0	2.0
CR2016 MFR SM	701969	90	20.0	24.0	28.0	3.0	1.9	11.5	25.0	1.9
CR2025 MFR SM	701971	165	20.0	24.0	28.0	3.0	2.8	11.5	25.0	2.7
CR2032 MFR SM	701973	225	20.0	24.0	28.0	3.0	3.5	11.5	25.0	3.0
CR2320SM	701974	150	23.0	28.0	33.0	4.0	2.3	13.0	29.0	2.9
CR2325SM	701975	190	23.0	28.0	33.0	4.0	2.8	13.0	29.0	3.2
CR2430SM	701976	285	24.5	29.5	34.5	4.0	3.3	13.75	30.5	4.3
CR2450N SM	701977	540	24.5	29.5	34.5	4.0	5.3	13.75	30.5	6.1
CR2477N SM	701978	950	24.5	29.5	34.5	4.0	8.0	13.75	30.5	8.4

Find details about our tabbed lithium coin cells on our website www.renata.com

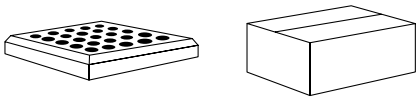
The Swiss
power source.

3.70–3.85V Lithium polymer batteries

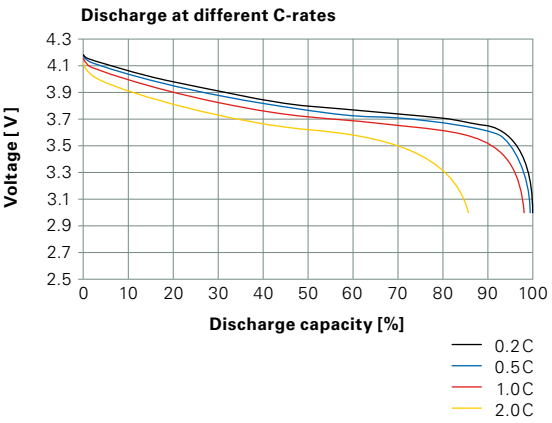
Features

- Best in class quality
- High energy density with a low profile
- Cobalt-oxide (LCO) Cathode technology
- Customization possible
- UL certified: file MH 14002
- Long cycle life with good capacity retention
- Technical expertise and guidance
- Including battery protection circuit
- Many models IEC62133 certified
- Customized certificate available (BIS, CCC, etc.)

Industrial bulk



Typical discharge curve



Charge: 0.5C to 4.2V & C/20 cut-off
Discharge: at various C-rates at CC to 3.0V

Standard specifications

Nominal voltage	3.70–3.85V
Capacity range	24–2800 mAh (0.2 C cut-off 3.0V at 20 °C)
Storage temperature	–20 °C / +45 °C (0 °C / +30 °C for storage > 3 mos.)

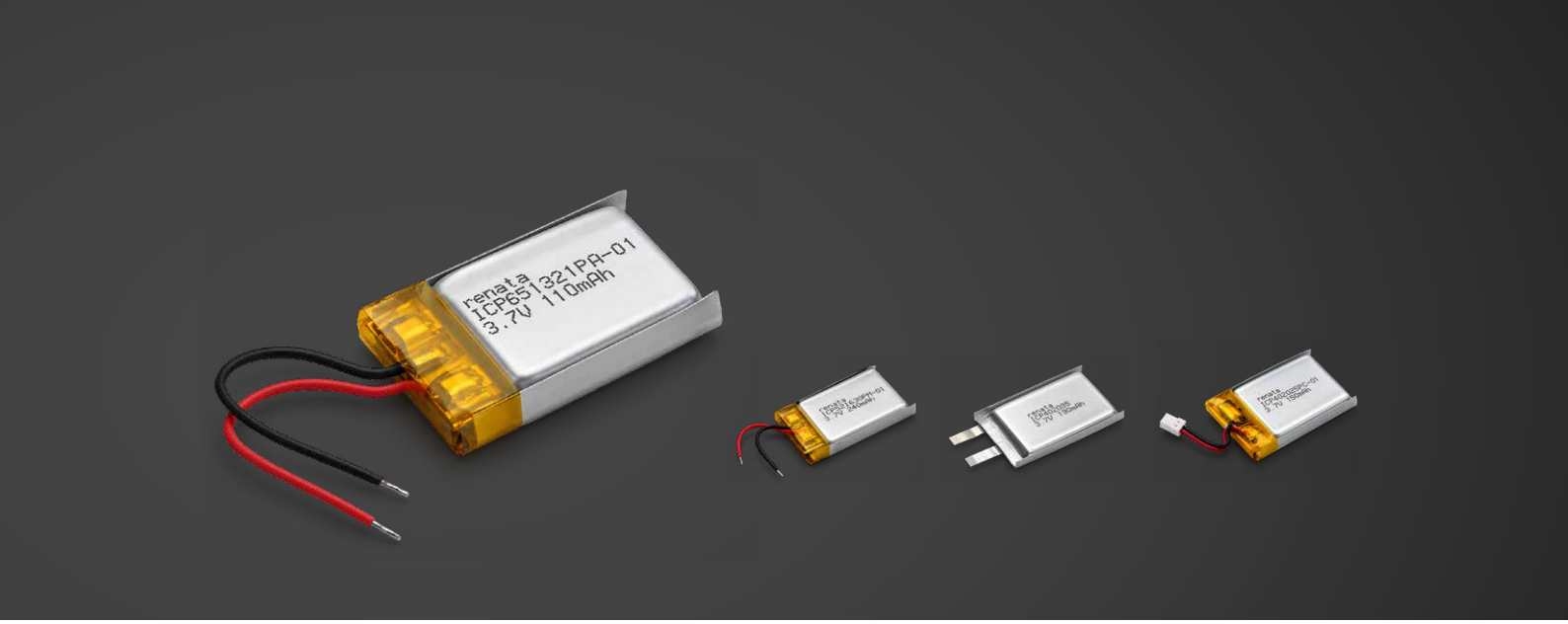
Charging characteristics

Voltage	4.2–4.35V
Current normal	0.5 C (Constant current)
Max. charging current	1.0 C (Constant current)
Temperature at charging	0 °C / +45 °C

Discharge characteristics

Max. discharge current	2.0 C (Non-cont. current) 1.0 C (Cont. current)
Temperature at discharging	–20 °C / +60 °C
Cycle life at room temperature	500 cycles with > 80 % of min. capacity

Find details about our lithium polymer batteries on our website www.renata.com



3.70–3.85V Lithium polymer batteries

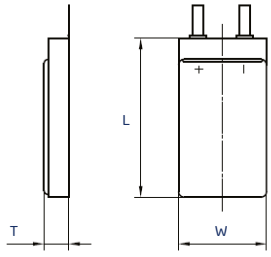
Dimensions and electrical characteristics

Model	Renata part	Dimensions [mm]* T	W	L	Capacity [mAh] Min.	Typical	Contact
ICP241019P-01	101053	2.6	10.7	18.3	24	25	Tabs
ICP341018PM	100730	3.7	10.2	19.5	33	35	Wire
ICP331319PM	100735	3.7	12.8	21.0	45	50	Wire
ICP281029HPG***	101024	3.3	10.2	30.5	65	68	Tabs
ICP390831PR	101025	4.3	8.7	33.0	80	85	Wire
ICP501022UPM	100640	5.5	10.0	24.0	75	80	Wire
ICP641414PE	100694	6.7	14.9	16.8	85	95	Wire
CP501421PS-01	100690	5.4	14.2	23.0	110	115	Wire
ICP651321PA-01	100696	7.0	13.2	23.5	110	120	Wire
ICP401230UPR	100642	4.5	12.7	31.0	125	130	Wire
ICP521522PS**	100935	5.7	15.5	23.5	125	130	Connector
ICP501230PS-03	100688	5.4	12.5	31.5	130	135	Wire
ICP581323PA-01	100692	6.2	13.2	24.5	140	145	Wire
ICP402025PC-01	100644	4.3	20.5	27.5	150	155	Connector
ICP641620PA-01	100695	6.9	16.2	21.5	155	165	Wire
ICP501233PA-02	100689	5.4	12.0	35.0	170	175	Wire
ICP402035	100645	4.4	20.5	35.0	190	195	Tab
ICP401835TPRT**	101026	4.4	18.0	37.0	205	215	Wire
ICP621333PA-01	100693	6.7	13.0	35.0	230	240	Wire
ICP521630PM-01	100691	5.6	17.0	31.5	240	250	Wire
ICP621333HPMT** ***	101027	6.8	13.0	35.0	260	270	Wire
ICP403029PL-02	101028	4.4	31.0	31.0	310	325	Wire
ICP422339PR	100648	4.5	23.7	40.5	330	340	Connector
ICP582035PR-01	101029	6.4	20.5	37.0	330	340	Wire
ICP602823PA-01	100697	6.5	28.2	25.5	335	350	Wire
ICP402050PR	100649	4.5	20.7	52.5	420	440	Wire
ICP582930PR-01	100650	6.3	29.5	32.0	430	450	Wire
ICP303450PA-02	100701	3.6	34.5	52.0	500	510	Wire
ICP632136HPST** ***	101030	6.95	21.5	39.5	500	520	Wire
ICP682828HPMT** ***	101031	7.5	28.0	30.0	530	560	Wire
ICP622540PMT**	100651	6.6	25.7	42.5	550	600	Wire
ICP543759PMT**	100652	6.05	37.5	61.0	1260	1320	Wire
ICP606168PRT**	100758	6.7	62.0	71.0	2700	2800	Wire









* Dimensions after 500 cycles | ** NTC Temp Sensor built in | *** 3.85V model

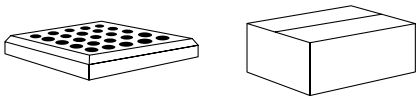
Find details about our lithium polymer batteries
on our website www.renata.com

3.70–3.85V Rechargeable coin cells

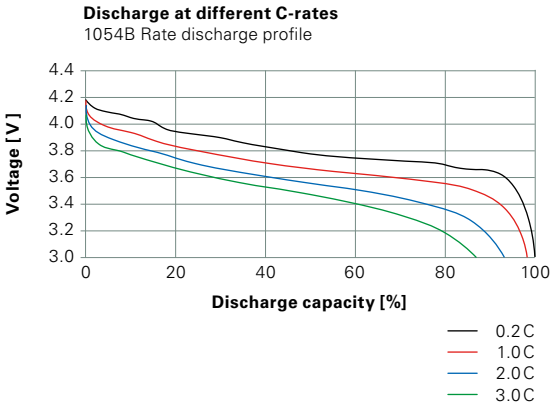
Features

- Battery fully sealed – no leakage
- Safer versus pouch cells
- Charging up to 2.0C, Maximum Charge Voltage 4.2V–4.4V
- Typical cycle life > 1000
- Highly robust against swelling, temperature and mechanical stress
- Leading Glass-to-Metal Seal for volume optimization (less dead volume)
- Longer storage – low self discharge < 2 % per month

Industrial bulk



Typical discharge curve



Charge: CC/CV: 2.0C–4.2V (0.05 cut-off) at 25°C
Discharge: CC: Different C-Rate to 3.0V cut-off at 25°C

Standard specifications

Nominal voltage	3.70–3.85V
Capacity range	38–105 mAh (0.5 C cut-off 3.0V at 20 °C)
Storage temperature	–20 °C / +45 °C (0 °C / +30 °C for storage > 3 mos.)

Charging characteristics

Voltage	4.2–4.4V
Current normal	0.2 C (Constant current)
Max. charging current	2.0 / 4.0 C (Constant current)
Temperature at charging	0 °C / +45 °C

Discharge characteristics

Max. discharge current	2.0 C (Non-cont. current) 1.0 (Cont. current)
Temperature at discharging	–20 °C / +60 °C
Cycle life at room temperature	500 cycles with > 80 % of min. capacity

Find details about our rechargeable coin cells on our website www.renata.com



3.70–3.85V Rechargeable coin cells

Dimensions and electrical characteristics

Model	Renata part	Diameter [mm]	Height [mm]	Nominal voltage [V]	Charging voltage [V]	Typical capacity [mAh] (@ 0.2C)	Max. charge	wire
ICR1042 B4	101091	10.2	4.2	3.85	4.4	38	2.0C	
ICR1054 D4	101093	10.2	5.4	3.85	4.4	51	2.0C	
ICR1154 B4	101096	11.2	5.6	3.85	4.4	64	2.0C	
ICR1254 B2	101099	12.2	5.6	3.8	4.3	77	2.0C	
ICR1454 B1	101100	14.2	5.6	3.7	4.2	104	2.0C	
ICR1654 D1	101120	16.2	5.4	3.70	4.2	150	2.0C	
ICR1042 B4 W20	101113	10.2	4.2	3.85	4.4	38	2.0C	with 20mm wire
ICR1054 D4 W20	101112	10.2	5.4	3.85	4.4	51	2.0C	with 20mm wire
ICR1154 B4 W20	101114	11.2	5.6	3.85	4.4	64	2.0C	with 20mm wire
ICR1254 B2 W20	101115	12.2	5.6	3.8	4.3	77	2.0C	with 20mm wire
ICR1454 B1 W20	101116	14.2	5.6	3.7	4.2	104	2.0C	with 20mm wire







Renata – the world class leader in micro batteries.

With the Glass-to-Metal sealing technology, Renata offers the next generation of rechargeable button cells with more volume for active material compared to conventional housing technologies. Our batteries are hermetically sealed and offer superior protection against leakage. The high mechanical stability without measurable swelling allows the design of precise high-end applications that were not possible with previous technologies. The electrical properties also benefit from the housing design and enable a longer service life and more cycles with higher charging currents.

The ideal rechargeable energy source for innovative Health Monitoring, IOT, Drug Delivery, Smart Watch, Smart Patch, Insulin Pen and many other portable applications. Renata offers customer-specific solutions for contacts (tabs), protection circuits and individual sizes. Talk to us about your business case.

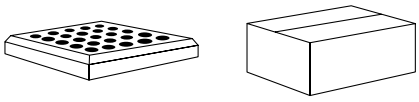
Find details about our rechargeable coin cells on our website www.renata.com

1.55V Silver oxide coin cells

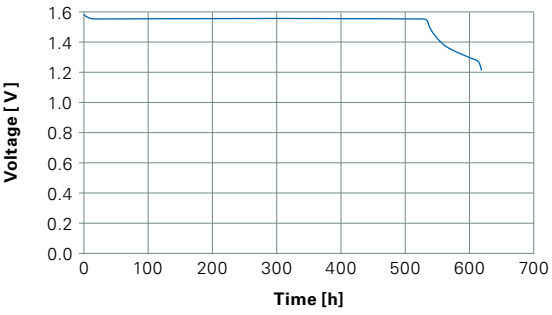
Features

- Extremely small dimensions possible
- Custom tabbed models possible
- >40 different standard models
- High pulse versions available with >10 mA pulse capability
- Shelf life up to 3 years at 23 °C

Industrial bulk



Typical discharge curve



Standard specifications

Chemical system		Ag_2O
Nominal voltage		1.55V
Capacity range		6–190 mAh
Typical standard discharge current range		20–300 µA
Average weight range		0.13–2.3 g
Temperature range	Low drain: –10 °C/+60 °C	High drain: –20°C/+60 °C
Self discharge at 23 °C	Low drain: <5 %/year	High drain: <10 %/year

Application example





Find details about our silver oxide coin cells on our website www.renata.com



1.55V Silver oxide coin cells

Dimensions and electrical characteristics

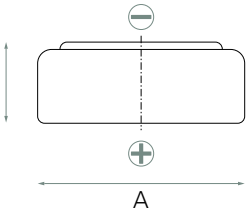
Low drain batteries

Model	Renata part	Dimensions [mm] A	B	Nominal capacity [mAh]
337	702257	4.8	1.6	8
335	702255	5.8	1.2	6
317	702181	5.8	1.6	10.5
379	702196	5.8	2.1	16
319	702182	5.8	2.7	21
339	702258	6.8	1.4	11
321	702183	6.8	1.6	14.5
364	702187	6.8	2.1	20
377	702195	6.8	2.6	28
346	702261	7.9	1.2	9.5
341	702259	7.9	1.4	15
315	702180	7.9	1.6	23
362	702186	7.9	2.1	24
397	702207	7.9	2.6	32
329	702184	7.9	3.1	37
384	702266	7.9	3.6	45
309	702254	7.9	5.4	80
373	702192	9.5	1.6	29
371	703292	9.5	2.0	40
395	703294	9.5	2.7	55
394	702204	9.5	3.6	84
366	702265	11.6	1.6	47
381	702198	11.6	2.1	50
390	703561	11.6	3.1	80
344	702260	11.6	3.6	105
301	702252	11.6	4.2	130
303	702253	11.6	5.4	175

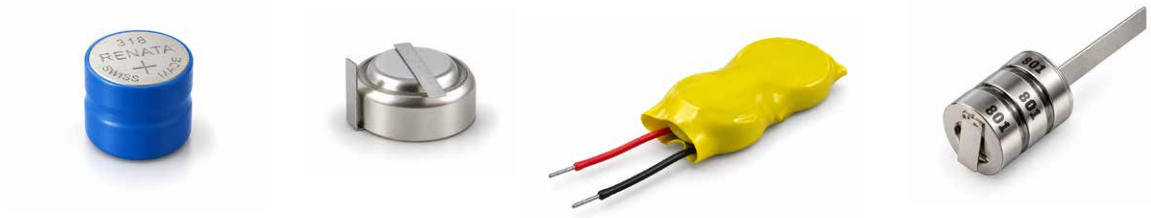
High drain batteries

Model	Renata part	Dimensions [mm] A	B	Nominal capacity [mAh]
376	702193	6.8	2.6	27
361	702263	7.9	2.1	24
396	702206	7.9	2.6	32
392	702202	7.9	3.6	45
393	702203	7.9	5.4	80
370	702190	9.5	2.1	40
399	702208	9.5	2.7	55
380	702197	9.5	3.6	82
365	702264	11.6	1.6	47
391	702201	11.6	2.1	50
389	702199	11.6	3.1	80
350	702185	11.6	3.6	105
386	702267	11.6	4.2	130
357	703291	11.6	5.4	190





Customized solutions



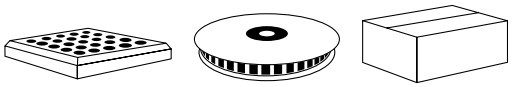
Find details about our silver oxide coin cells on our website www.renata.com

Battery holders

Features

- Low profile for compact PCBs
- Lightweight material with robust design
- Dual spring contacts for low resistance (SMTM & SMTU, HU)
- Designed for automatic «pick & place» mounting
- Save retention of coin cell
- Protection against short circuits, inverse polarity and leak currents
- Suitable models for reflow/wave or high temperature soldering
- Easy and fast replacement of battery

Industrial bulk and tape & reel



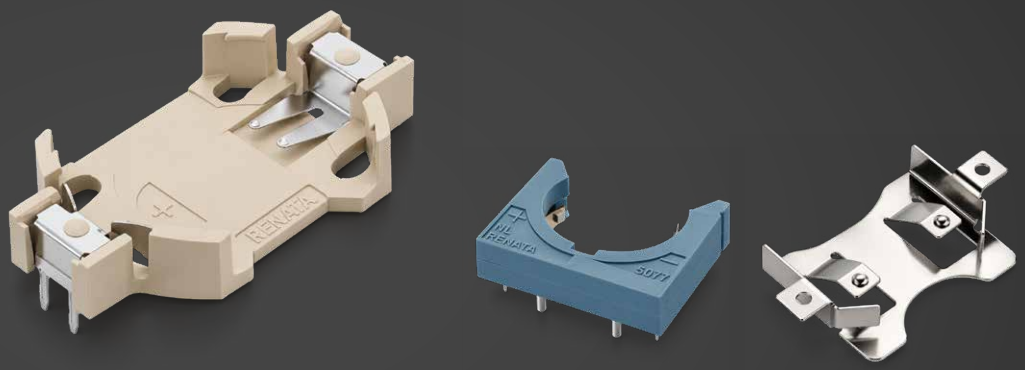
Standard specifications

Holder material	Heat resistant, glass fiber filled LCP, polyamide or nickel plated phosphor bronze
Flammability rating	UL 94 V-0 (Except SMTM)
Battery contacts	Spring stainless steel AISI 301, nickel plated throughout, Solder areas tin-plated, other options available
Contact resistance between contacts and the cell	Less than 100 mΩ (measured through AC 1 kHz)

Details about our battery holders on our website

Surface Mounting Metal (SMTM) – low profile
Surface Mounting Technology (SMTU)
Through-hole mounting (HU) – horizontal
Through-hole mounting (VBH) – vertical
Through-hole mounting with positioning pins (NH/NL)

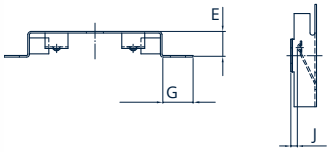
Find details about our battery holders on our website www.renata.com



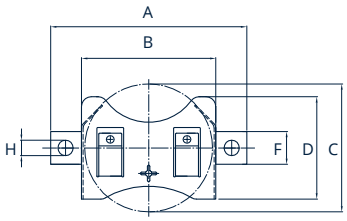
Battery holders

Surface mounting metal

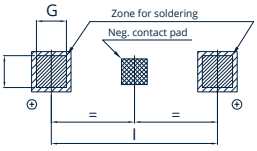




Side view



Top view



Layout top view

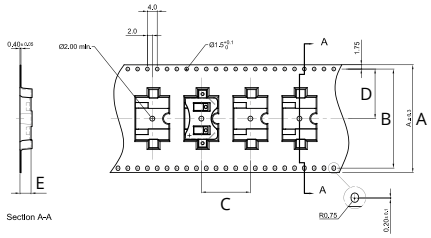
Dimensions and weights

Battery holders: Surface mounting metal

Model	Renata part	For use with Renata cell	Maximum dimensions [mm] A	B	C	D	E	F	G	H	I	J	Weight [g]
SMTM1225	100380	CR1225	18.9	13.2	12.5	10.60	3.2	3.2	3.2	1.2	16.10	1.5	0.4
SMTM1632	100390	CR1632	23.2	16.9	16.0	13.25	4.0	3.2	3.0	1.2	20.05	1.0	0.7
SMTM2032	100340	CR2032	30.7	21.0	20.0	16.00	4.0	5.1	4.7	2.4	26.00	1.0	0.9

Tape and reel packaging

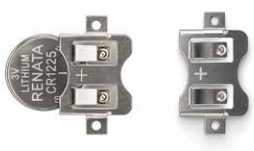
Model	Renata part	Quantity per reel	Maximum dimensions [mm] A	B	C	D	E
SMTM1225 TR	100710	1000 pieces	32	28	16	14	3.8
SMTM1632 TR	100711	700 pieces	44	40	20	20	4.5
SMTM2032 TR	702100	600 pieces	44	40	24	20	4.5



Product Images

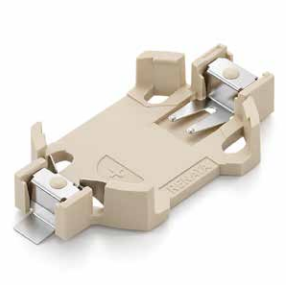


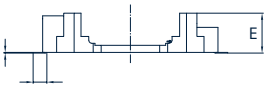




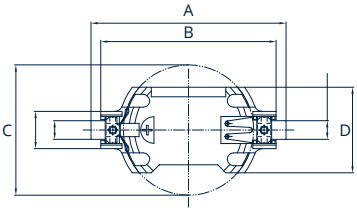
Find details about our battery holders on our website www.renata.com

Surface mounting technology

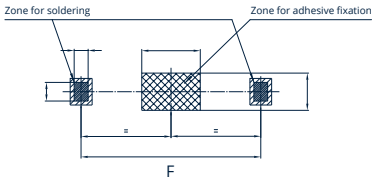




Side view



Top view



Layout top view

Dimensions and weights

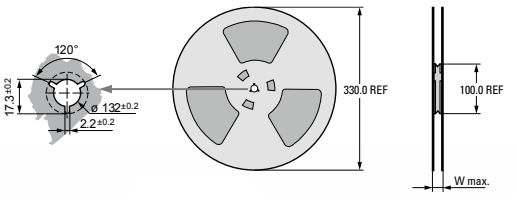
Battery holders: Surface mounting technology

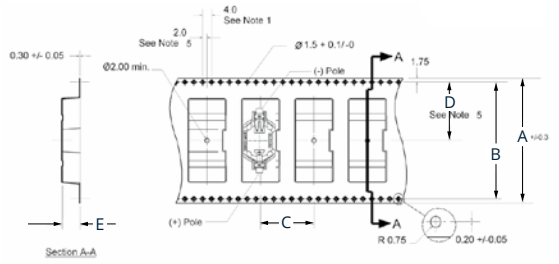
Model	Renata part*	For use with Renata cell	Dimensions [mm] A	B	C	D	E	F	Weight [g]
SMTU357-LF	701132	357	23.6	19.9	11.6	12.0	7.55	20.7	0.85
SMTU1220-LF	701114	CR1220	23.7	20.3	12.5	12.7	4.8	21.1	0.80
SMTU1225-LF	701115	CR1225	23.7	20.3	12.5	12.7	4.8	21.1	0.70
SMTU1632-LF	701130	CR1632	27.7	24.3	16.0	14.5	5.4	25.1	0.80
SMTU2032-LF	701116	CR2032	32.0	28.5	20.0	16.1	5.4	29.4	0.95
SMTU2430-LF	701117	CR2430	36.4	33.0	24.5	16.1	4.9	33.8	1.05
SMTU2450N-LF	701118**	CR2450N	36.7	33.0	24.5	16.1	7.5	33.8	1.45
SMTU2477N-LF	701119	CR2477N	36.7	33.0	24.5	16.1	10.3	33.8	1.65
SM2X2016-LF	701113	CR2016	32.0	28.5	20.0	16.1	5.4	29.4	0.95
SMTU2032-G***	702080	CR2032	32.0	28.5	20.0	16.1	5.4	29.4	0.95

* Industrial bulk packaging | ** Not suitable for CR2450HT | *** Gold plated contacts for increased conductivity (optional)

Tape and reel packaging

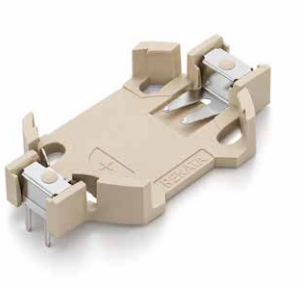
Model	Renata part	Quantity per reel	Dimensions [mm] A	B	C	D	E
SMTU1220-LF.TR	702450	750 pieces	44	40.4	16	20.2	5.7
SMTU1225-LF.TR	701230	750 pieces	44	40.4	16	20.2	5.7
SMTU1632-LF.TR	701231	520 pieces	44	40.4	20	20.2	6.1
SMTU2032-LF.TR	701232	485 pieces	44	40.4	24	20.2	6.0
SMTU2430-LF.TR	701233	490 pieces	56	52.4	24	26.2	5.7
SMTU2450N-LF.TR	701234	350 pieces	56	52.4	24	26.2	8.2
SMTU2477N-LF.TR	701235	250 pieces	56	52.4	24	26.2	10.8
SM2X2016-LF.TR	701236	485 pieces	44	40.4	24	20.2	6.0

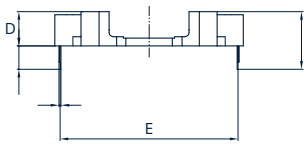




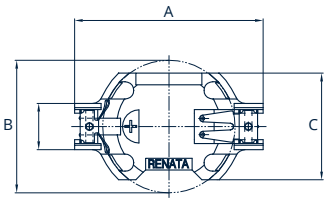
Find details about our battery holders on our website www.renata.com

Through-hole mounting

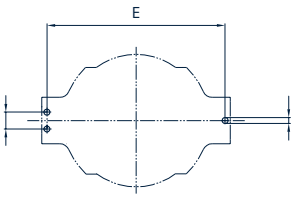




Side view



Top view



Layout top view

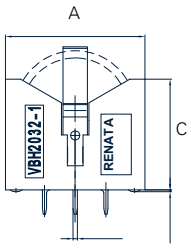
Dimensions and weights

Battery holders: Through-hole mounting

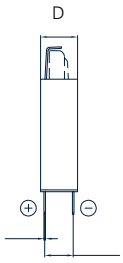
Model	Renata part	For use with Renata cell	Dimensions [mm] A	B	C	D	E	Weight [g]
HU357-LF	701133	357	19.9	11.6	12.0	7.4	18.65	0.84
HU1225-LF	701105	CR1225	20.3	12.5	12.7	4.6	19.10	0.70
HU1632-LF	701131	CR1632	24.3	16.0	14.5	5.2	23.00	0.80
HU2032-LF	701106	CR2032	28.5	20.0	16.1	5.2	27.20	0.95
HU2430-LF	701107	CR2430	33.0	24.5	16.1	4.7	31.70	1.05
HU2450N-LF	701108	CR2450N	33.0	24.5	16.1	7.3	31.75	1.45
HU2477N-LF	701109	CR2477N	33.0	24.5	16.1	10.1	31.80	1.65
VBH2032-1	703384	CR2032	23.0	24.1	18.3	6.1	10.15	1.86
NH5077-LF	701111	CR2450N, CR2477N	30.0	27.25	23.0	7.0	25.4	2.40
NL5077-LF	701112	CR2450, CR2477	25.0	29.25	25.0	7.0	25.4	2.90

VBH2032-1

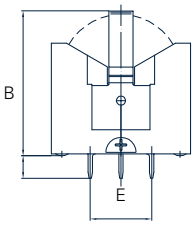




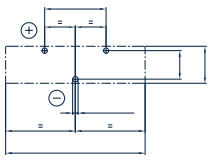
Front view from (–) pole side



Side view



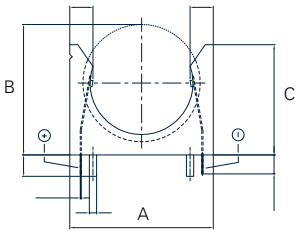
Front view from (+) pole side



Layout top view

NH5077-LF

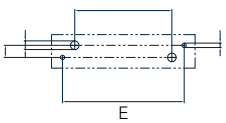




Front view

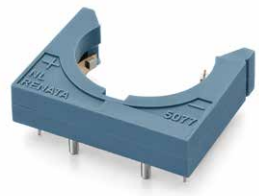


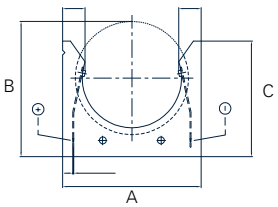
Side view



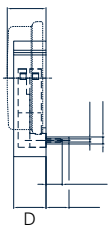
Layout top view

NL5077-LF

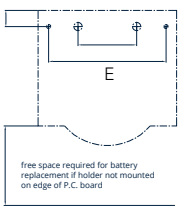




Front view



Side view



Layout top view

Find details about our battery holders on our website www.renata.com

Scope of supply

Batteries for watches, hearing aids and calculators

Chemical system	Dimensions [mm]	Renata No.	I.E.C. Code	Capacity [mAh]
Silver oxide (low drain) 1.55V	4.8 × 1.6	337	SR416SW	8
	5.8 × 1.2	335	SR512SW	6
	5.8 × 1.6	317	SR516SW	10.5
	5.8 × 2.1	379	SR521SW	16
	5.8 × 2.7	319	SR527SW	21
	6.8 × 1.4	339	SR614SW	11
	6.8 × 1.6	321	SR616SW	14.5
	6.8 × 2.1	364	SR621SW	20
	6.8 × 2.6	377	SR626SW	28
	7.9 × 1.2	346	SR712SW	9.5
	7.9 × 1.4	341	SR714SW	15
	7.9 × 1.6	315	SR716SW	23
	7.9 × 2.1	362	SR721SW	24
	7.9 × 2.6	397	SR726SW	32
	7.9 × 3.1	329	SR731SW	37
	7.9 × 3.6	384	SR41SW	45
	7.9 × 5.4	309	SR754SW	80
	9.5 × 1.6	373	SR916SW	29
	9.5 × 2.0	371	SR920SW	40
	9.5 × 2.7	395	SR927SW	55
	9.5 × 3.6	394	SR936SW	84
	11.6 × 1.6	366	SR1116SW	47
	11.6 × 2.0	381	SR1120SW	50
	11.6 × 3.0	390	SR1130SW	60
	11.6 × 3.6	344	SR1136SW	105
	11.6 × 4.2	301	SR43SW	130
	11.6 × 5.4	303	SR44SW	175
Silver oxide (high drain) 1.55V	6.8 × 2.6	376	SR626W	27
	7.9 × 2.1	361	SR721W	24
	7.9 × 2.6	396	SR726W	32
	7.9 × 3.6	392	SR41W	45
	7.9 × 5.4	393	SR754W	80
	9.5 × 2.0	370	SR920W	40
	9.5 × 2.7	399	SR927W	55
	9.5 × 3.6	380	SR936W	82
	11.6 × 1.6	365	SR1116W	47
	11.6 × 2.0	391	SR1120W	50
	11.6 × 3.0	389	SR1130W	80
	11.6 × 3.6	350		105
	11.6 × 4.2	386	SR43W	130
	11.6 × 5.4	357	SR44W	190
Lithium 3V	10.0 × 2.5	CR1025		30
	12.5 × 1.6	CR1216		25
	12.5 × 2.0	CR1220		35
	12.5 × 2.5	CR1225		48
	16.0 × 1.6	CR1616		50
	16.0 × 2.0	CR1620		68
	16.0 × 3.2	CR1632		137
	20.0 × 1.6	CR2016		90
	20.0 × 2.5	CR2025		165
	20.0 × 3.2	CR2032		225
	23.0 × 2.0	CR2320		150
	23.0 × 2.5	CR2325		190
	24.5 × 3.0	CR2430		285
	24.5 × 5.0	CR2450*		620
	24.5 × 5.0	CR2450N		540
	24.5 × 7.7	CR2477N		950
Zinc air, 1.45V	5.8 × 3.6	10	PR70	105
	7.9 × 3.6	312	PR41	165
	7.9 × 5.4	13	PR48	305
	11.6 × 5.4	675	PR44	660

* Currently under development. Planned launch: Q3 2027.

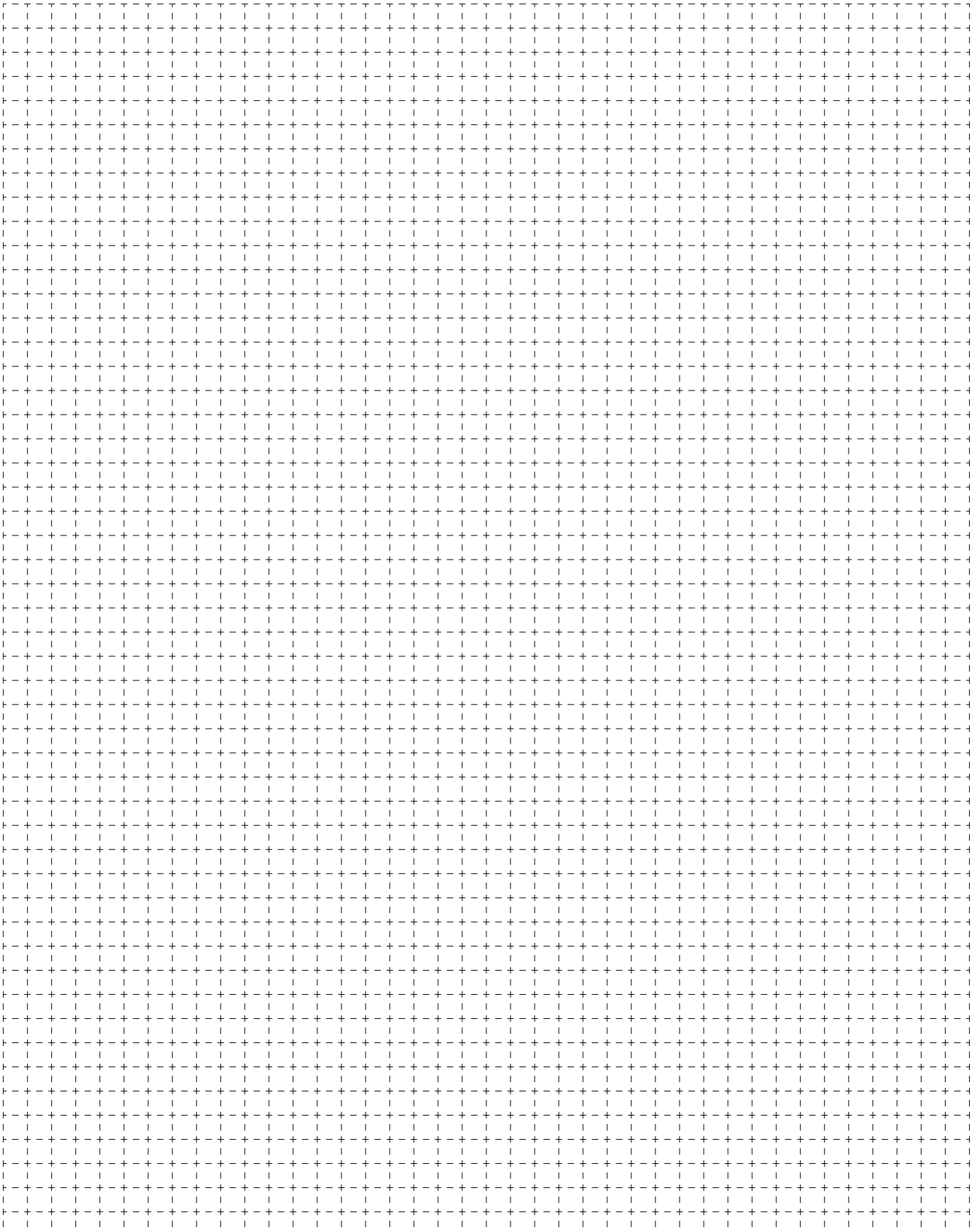
Cross reference guide

Renata part	Energizer, Eveready	Maxell, Panasonic, Sony, Toshiba	Varta	Rayovac	Duracell	Timex	Citizen	Seiko	I.E.C. 60086-3 (60086-2)
301	301	SR43SW	V301	301	D 301/386	D	280-01	SB-A8	SR1142 (SR43)
303	303	SR44SW	V303	303	D 303/357	A	280-08	SB-A9	SR1154 (SR44)
309	309	SR754SW	V309	309	D 309/393				SR754 (SR48)
315	315	SR716SW	V315	315		HA	280-56	SB-AT	SR716 (SR67)
317	317	SR516SW	V317	317		CA	280-58	SB-AR	SR516 (SR62)
319	319	SR527SW	V319	319	D 319		280-60	SB-AE/DE	SR527 (SR64)
321	321	SR616SW	V321	321		DA	280-73	SB-AF/DF	SR616 (SR65)
329	329	SR731SW	V329	329					SR731
335	335	SR512SW	V335	335			280-68	SB-AB	SR512
337	337	SR416SW		337					SR416
339	339	SR614SW	V339						SR614
341	341	SR714SW	V341	341					SR714
344	344	SR1136SW	V344	344					SR1136 (SR42)
346	346	SR712SW	V346	346			280-66	SB-DH	SR712
350	350		V350						SR1136 (SR42)
357	357	SR44W	V357	357	D 303/357	J	280-62	SB-B9	SR1154 (SR44)
361	361	SR721W	V361	361	D 361/362	X	280-53	SB-BK/EK	SR721 (SR58)
362	362	SR721SW	V362	362	D 361/362	S	280-29	SB-AK/DK	SR721 (SR58)
364	364	SR621SW	V364	364	D 364	T	280-34	SB-AG/DG	SR621 (SR60)
365	365	SR1116W							SR1116
366	366	SR1116SW	V366	366			280-46		SR1116
370	370	SR920W	V370	370	D 370/371	Z	280-51	SB-BN	SR921 (SR69)
371	371	SR920SW	V371	371	D 370/371		280-31	SB-AN	SR921 (SR69)
373	373	SR916SW	V373	373		WA	280-45	SB-AJ/DJ	SR916 (SR68)
376	376	SR626W		376	D 376		MA		SR626 (SR66)
377	377	SR626SW	V377	377	D 377	BA	280-39	SB-AW	SR626 (SR66)
379	379	SR521SW	V379	379	D 379	JA	280-59	SB-AC/DC	SR521 (SR63)
380		SR936W							SR936
381	381	SR1120SW	V381	381	D 381/391		280-27	SB-AS/DS	SR1121 (SR55)
384	384	SR41SW	V384	384	D 384/392		280-18	SB-A1/D1	SR736 (SR41)
386	386	SR43W	V386	386	D 301/386	H	280-41	SB-B8	SR1142 (SR43)
389	389	SR1130W	V389	389	D 389/390	M	280-15	SB-BU	SR1130 (SR54)
390	390	SR1130SW	V390	390	D 389/390		280-24	SB-AU	SR1130 (SR54)
391	391	SR1120W	V391	391	D 381/391	L	280-30	SB-BS/ES	SR1121 (SR55)
392	392	SR41W	V392	392	D 384/392	K	280-13	SB-B1	SR736 (SR41)
393	393	SR754W	V393	393	D 309/393	F		SB-B3	SR754 (SR48)
394	394	SR936SW	V394	394	D 394		280-17	SB-A4	SR936
395	395	SR927SW	V395	395	D 395/399	LA	280-48	SB-AP/DP	SR927 (SR57)
396	396	SR726W	V396	396	D 396/397	V	280-52	SB-BL	SR726 (SR59)
397	397	SR726SW	V397	397	D 396/397	N	280-28	SB-AL	SR726 (SR59)
399	399	SR927W	V399	399	D 395/399	W	280-44	SB-BP/EP	SR927 (SR57)
CR1025	CR1025	CR1025							CR1025
CR1216*	CR/BR1216	CR/BR1216	CR1216	BR1216					CR1216
CR1220*	CR1220	CR/BR1220	CR1220	CR1220	DL1220	PA		SB-T13	CR1220
CR1225*	CR/BR1225	BR1225		BR1225					CR1225
CR1616*	CR/BR1616	CR/BR1616	CR1616	BR1616	DL1616	YA	280-209		CR1616
CR1620	CR1620	CR1620	CR1620	CR1620	DL1620	EA	280-208		CR1620
CR1632		CR1632							CR1632
CR2016*	CR/BR2016	CR/BR2016	CR2016	CR/BR2016	DL2016	FA	280-202/4/6	SB-T11	CR/BR2016
CR2025	CR2025	CR2025	CR2025	CR2025	DL2025	NA	280-205	SB-T14	CR2025
CR2032*	CR/BR2032	CR/BR2032	CR2032	CR2032	DL2032			SB-T15	CR2032
CR2320*	BR2320	CR/BR2320	CR2320	BR2320			280-201		CR/BR2320
CR2325*	BR2325	BR2325		BR2325				SB-T12	CR2325
CR2430	CR2430	CR2430	CR2430	CR2430	DL2430				CR2430
CR2450									
CR2450N**	CR2450	CR2450	CR2450		DL2450				CR2450
CR2477N**	CR2477	CR2477			DL2477				CR2477

* CR and BR coins use different cathode chemistries and are not always interchangeable.
** For N-type cells, check shape before replacement

Renata	Rayovac	Duracell Activair	Energizer	Energizer Amplifier	Power One	Panasonic	Toshiba	I.E.C.
10	10A	DA 10	AC230E/EZ	AC230	P10	PR230H	ZA10	PR70
312	312A	DA 312	AC312E/EZ	AC312	P312	PR312H	ZA312	PR41
13	13A	DA 13	AC13E/EZ	AC13	P13	PR13H	ZA13	PR48
675	675A	DA 675	AC675E/EZ	AC675	P675	PR675H	ZA675	PR44

Notes



Future
Performance.
Today.



Renata – the world-class leader in coin cells.

Renata is a leading manufacturer and supplier of coin cells for medical devices, disposable medical sensors, watches and many electronic product areas. The company offers a broad portfolio of silver oxide, lithium and zinc-air batteries.

It also conducts the entire production process of batteries: from punching the battery housings, through the injection molded plastic seals, sourcing of raw materials, mixing the compounds of the cathode and anode material until the final assembly and quality control.

The offering focuses on the differentiation between high-drain and low-drain cells, vital to meet the high technical demands of the watch sector, among many other applications.

Please contact:

Renata SA
Kreuzenstrasse 30
CH-4452 Itingen, Switzerland
+41 61 975 75 75
sales@renata.com