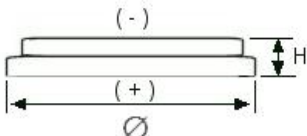
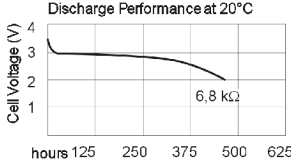
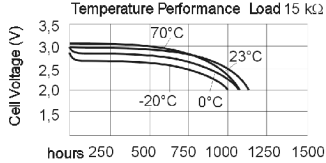
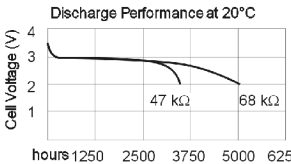
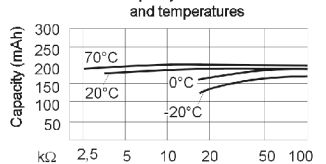


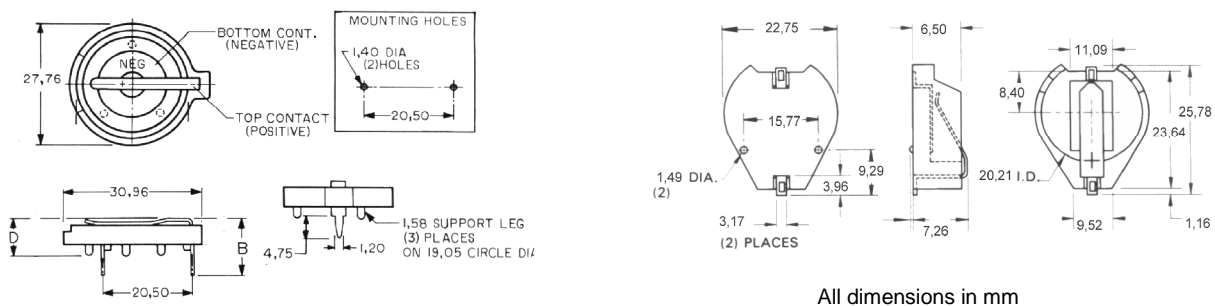
## CR-LITHIUM button cells without pins

for electronic applications as well as for calculators, watches, foto, games.

<p>Chemical system: Lithium Mangandioxyd (Li/MnO<sub>2</sub>)</p> <p>Nominal voltage: 3 Volt</p> <p>Operating temperature range: -20 bis +70°C Storage temperature range -40 bis +60°C</p> <p>Self discharge rate: less than 1%/year at 25°C</p> <p>Dimension:</p> 	<p><b>Characteristics of 3V-cells (CR 2032)</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Discharge Performance at 20°C</p>  </div> <div style="text-align: center;"> <p>Temperature Performance Load 15 kΩ</p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Discharge Performance at 20°C</p>  </div> <div style="text-align: center;"> <p>Cell Capacity at various loads and temperatures</p>  </div> </div>
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part no.				standard-	max.				
Part no.	type	packing type	nominal capacity	Current voltage	continuous current	max. dimensions (mm)		weight	packing
		Blister/bulk	(mAh) <sup>1)</sup>	(mA) <sup>1)</sup>	(mA) <sup>2)</sup>	Ø	H	g	unit
20.09109	CR 1025	BL	30	0,1	1	10,0	2,5	0,6	10/100
20.09690	CR 1216	bulk	25	0,1	1	12,5	1,6	0,7	20/200
20.09710	CR 1220	BL	38	0,1	1	12,5	2,0	0,8	10/100
20.09712	CR 1616	BL	50	0,1	1	16,0	1,6	1,2	10/100
20.09715	CR 1620	BL	68	0,1	1	16,0	2,0	1,2	10/100
20.09720	CR 2016	BL	80	0,2	3,5	20,0	1,6	1,7	10/100
20.09725	CR 2025	BL	150	0,2	3	20,0	2,5	2,5	10/100
20.09730	CR 2032	BL	230	0,3	3	20,0	3,2	3,0	10/100
20.09733	CR 2320	BL	150	0,2	3	23,0	2,0	2,5	10/100
20.09734	CR 2325	BL	190	0,2	3	23,0	2,5	3,0	10/100
20.09740	CR 2430	BL	285	0,3	4	24,5	3,0	3,9	10/100
20.09744	CR 2450	BL	540	0,4	3	24,5	5,0	5,3	10/100
20.09144	CR 2450N	BL	540	0,4	3	24,5	5,0	5,3	10/100
20.09149	CR2477N	BL	950	0,7	2,5	24,5	7,7	7,9	10/100

1) Nominal capacity shown above is based on standard discharge current to an end voltage of 2,0V at 23°C.  
2) Current value is determined so that 70% of the nominal capacity can be used when reaching an end voltage of 2,0V at 23°C.



Dimensions: B = 12,1mm D = 7,9mm All dimensions in mm



20.45170 battery holder for Lithium button cells up to 23 mm Ø for 1 cell. Print assembling  
Other types upon request.

20.45172 battery holder for Lithium button cells up to 20 mm Ø for 1 cell. SMD-Version.