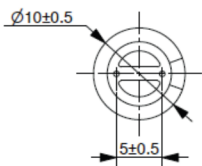
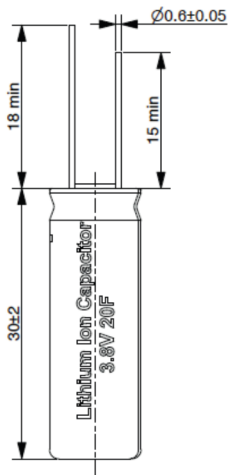


# Capacitor 20 F

## Lithium Ion Capacitor

This capacitor is only designed for Saft's batteries assembly (please consult Saft for available solution). It is not available for sale as a single component.



Dimensions in mm



### Electrical characteristics

Nominal capacitance	20 F
Capacitance tolerance	±15%
Maximum working voltage	3.8 V

### Operating conditions

Operating temperature range	-20°C to +70°C (-4°F to +158°F)
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### Physical characteristics

Diameter (max)	10.5 mm
Height (max)	32 mm

### Performance

Parameter	Capacitance Change (% of initial specified value)	ESR (% of initial specified value)
Life (10,000 cycles at all temperature of charge/discharge from 3.8 V to 2.5 V)	≤ 30%	≤ 200%

### Benefits

- Large capacitance for high energy density.
- Wide operating temperature range (-20°C to +70°C).

### Key features

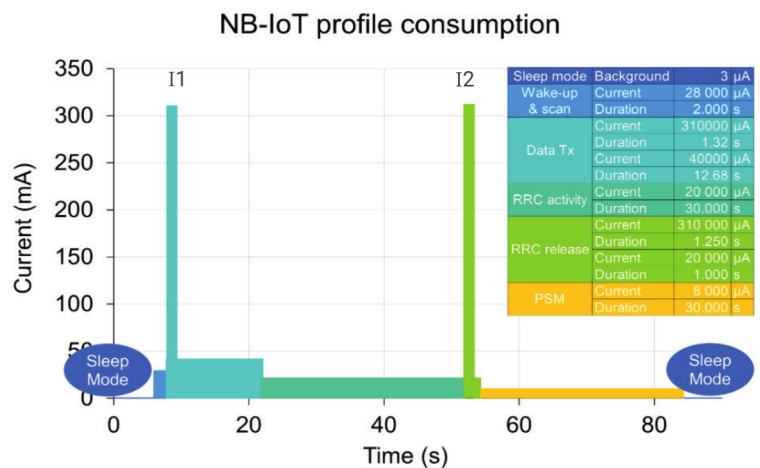
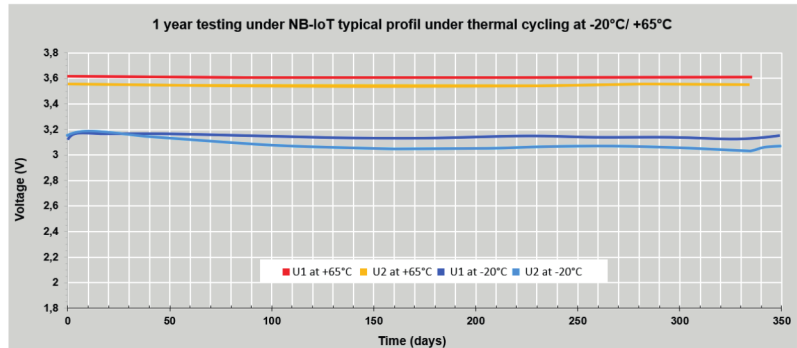
- RoHS compliance.

### Typical applications

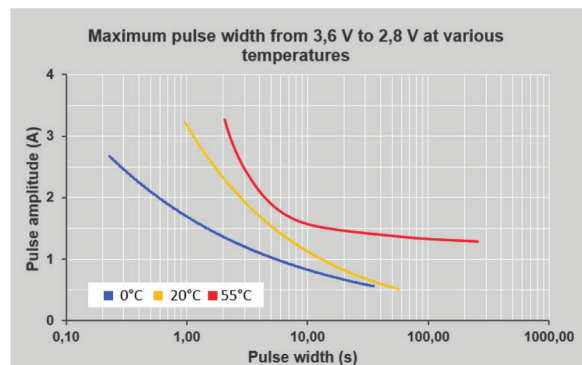
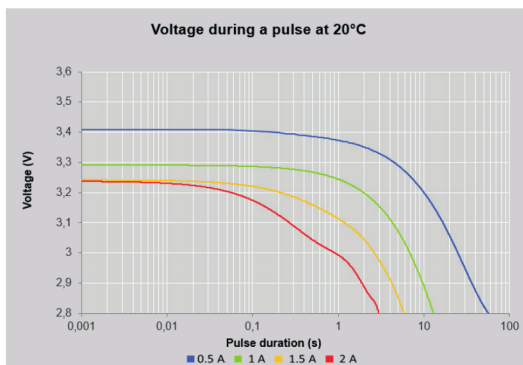
- Pulse power
- Hold-up power
- Bridging power

# Capacitor 20 F

Voltage response of a LSP 14500-H battery under the NB-IoT profile (see below) cycling in temperature between -20°C (8h) to + 65°C (8h) every day. Voltage response of I1 correspond to U1 and voltage response to I2 correspond to U2:



Results for LSP 33600-H assembly example:



Saft

26, quai Charles Pasqua  
92300 Levallois-Perret - France  
www.saft.com

Saft, a subsidiary of TotalEnergies  
S.A.S. au capital de 26 724 876 €  
R.C.S. Nanterre 481 480 465

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Data in this document is subject to change without notice and becomes contractual only after written confirmation.

Photo credits: © Saft