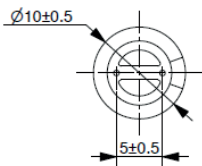
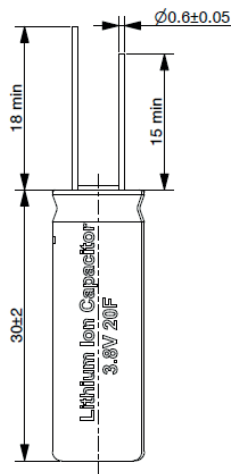


Capacitor 20 F

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

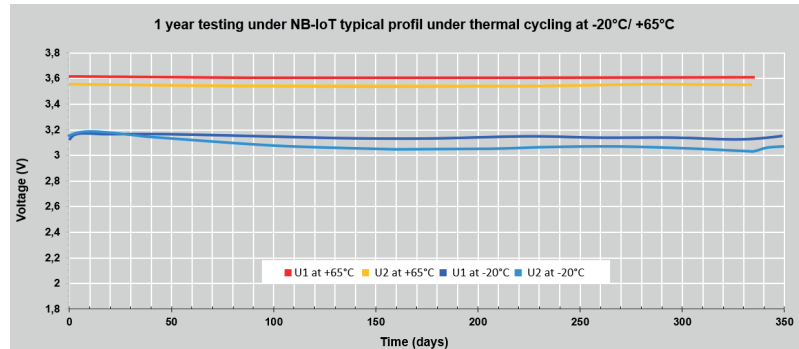
- RoHS compliance.

Typical applications

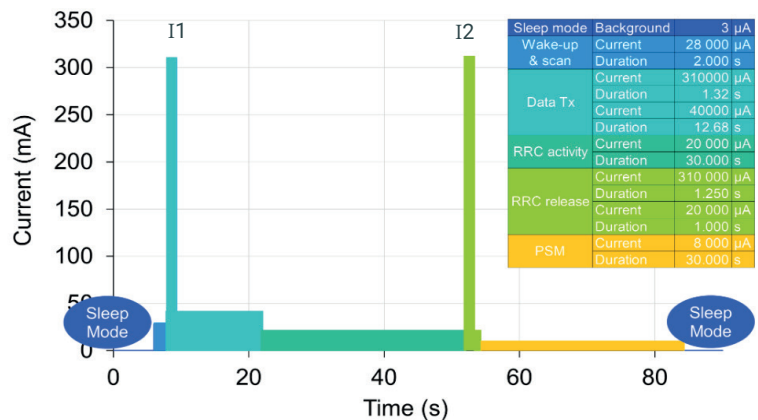
- Pulse power
- Hold-up power
- Bridging power

Capacitor 20 F

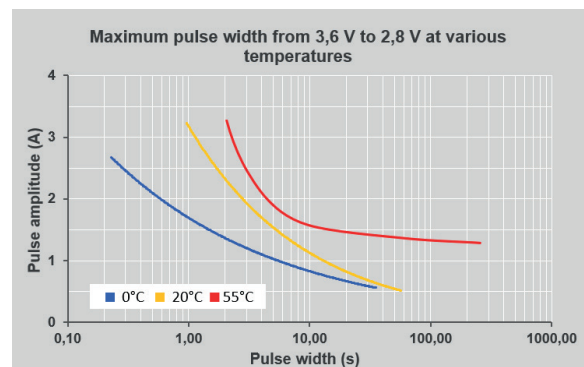
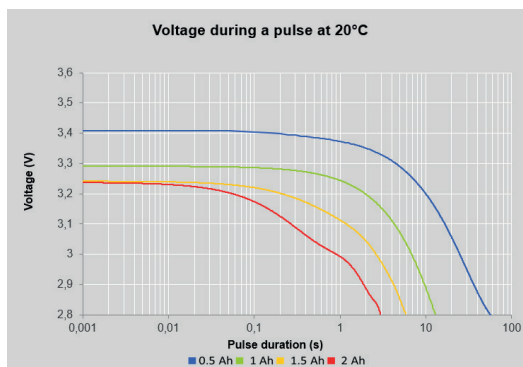
Voltage response of a LSP 14500-H battery under the NB-IoT profile (see below) cycling in temperature between -20°C (8h) to + 65°C (8h) every day. Voltage response of I1 correspond to U1 and voltage response to I2 correspond to U2:



NB-IoT profile consumption



Results for LSP 33600-H assembly example:



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Saft, a subsidiary of TotalEnergies
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