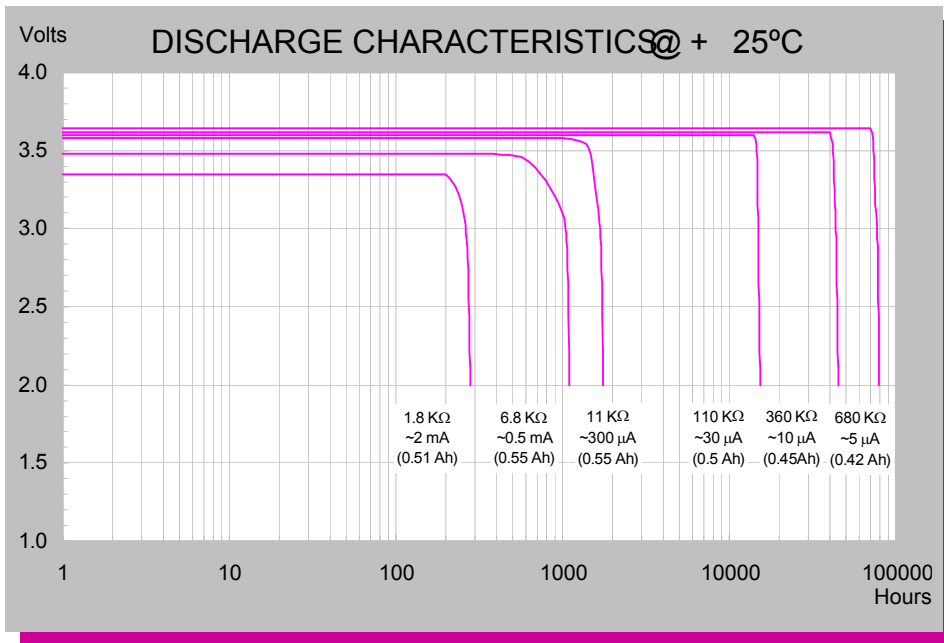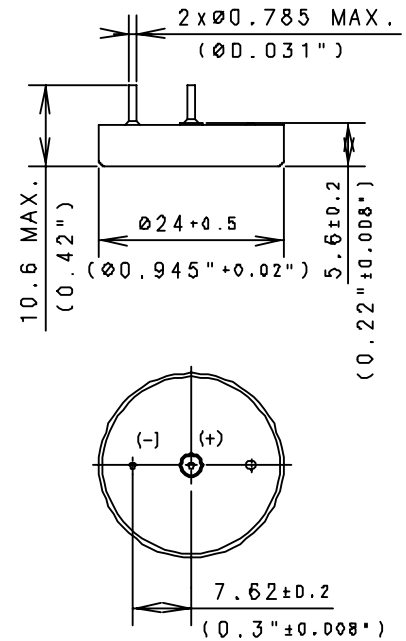# MODEL TL-2450

TECHNICAL DATA
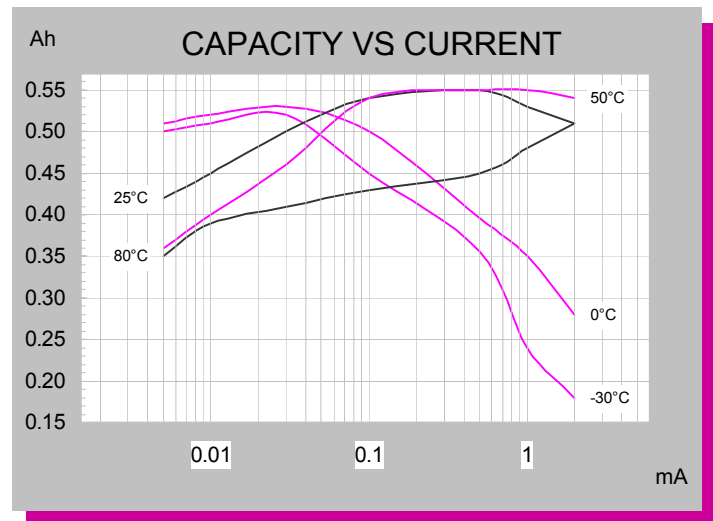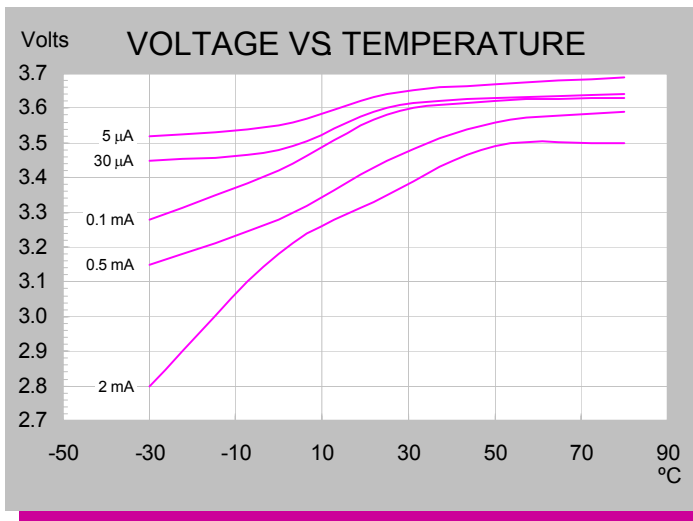(Typical values @+25ºC for batteries stored for one year or less)

- Nominal capacity @ 0.5 mA, to 2V — 0.55 Ah
- Rated voltage — 3.6 V
- Maximum recommended continuous current — 5 mA
- Maximum pulse current capability — 10 mA
- Weight — 8.8g (0.310 oz)
- Volume — 2.60 cc
- Operating temperature range — -55ºC to +85ºC
- Li metal content — approx. 0.2 g
- U.L. Component Recognition MH 12193

DISCHARGE CHARACTERISTICS @ + 25ºC

(Volts vs Hours)

| 1.8 KΩ ~2 mA (0.51 Ah) | 6.8 KΩ ~0.5 mA (0.55 Ah) | 11 KΩ ~300 µA (0.55 Ah) | 110 KΩ ~30 µA (0.5 Ah) | 360 KΩ ~10 µA (0.45Ah) | 680 KΩ ~5 µA (0.42 Ah) |

Dimensions:

2 x Ø0.785 MAX. (ØD.031")
10.6 MAX. (0.42")
Ø24 +0.5 (Ø0.945" +0.02")
5.6 ±0.2 (0.22" ±0.008")
(−) (+)
7.62 ±0.2 (0.3" ±0.008")

ADDITIONAL INFORMATION

SUFFIX- /P — TIN PLATED NICKEL PINS
CATALOGUE NO.: — 15-2450-41020

VOLTAGE VS TEMPERATURE

(Volts vs ºC)

- 5 µA
- 30 µA
- 0.1 mA
- 0.5 mA
- 2 mA

CAPACITY VS CURRENT

(Ah vs mA)

- 50°C
- 25°C
- 80°C
- 0°C
- -30°C

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TL-2450

TADIRAN LITHIUM BATTERIES

CELL FEATURES

- 3.6 V Primary lithium-thionyl chloride (Li-SOCl2)
- Fast voltage recovery after long term storage and/or usage
- High energy density
- High and stable operating voltage
- Low self discharge rate
- 10 years shelf life
- Wafer construction
- Hermetic glass-to-metal-sealing
- Non-flammable electrolyte
- Non-restricted for transportation

MAIN APPLICATIONS

- Utility meters (elect., water & gas)
- Automatic meter reading
- RF systems
- Sensors & monitoring systems
- Tracking systems
- Wireless security systems
- Automotive electronics
- Industrial electronics
- Ultra Low Power (ULP)

STORAGE CONDITIONS

- Cells should be stored in a clean & dry (less than 30 % RH) area

For updated information please visit our website **www.tadiranbat.com**

VOLTAGE RESPONSE AFTER STORAGE

Volts

After 1 year
After 2 years
After 5 years
After 10 years

Pulse applied: 5 mA for 1 sec
Storage: RT
Background current: None

(x-axis: 0, 200, 400, 600, 800, 1000, 1200 msec)
(y-axis: 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5)

VOLTAGE RESPONSE

Volts

After 1 year
After 2 years
After 5 years
After 10 years

Pulse applied: 5 mA for 100 msec
Temperature: RT
Background current: 2 μA

(x-axis: 0, 20, 40, 60, 80, 100, 120 msec)
(y-axis: 3.1, 3.2, 3.3, 3.4)

VOLTAGE RESPONSE

Volts

After 5 years
After 1 year
After 7 years
After 2 years

Pulse applied: 5 mA for 100 msec
Temperature: RT
Background current: 4 μA

(x-axis: 0, 20, 40, 60, 80, 100, 120 msec)
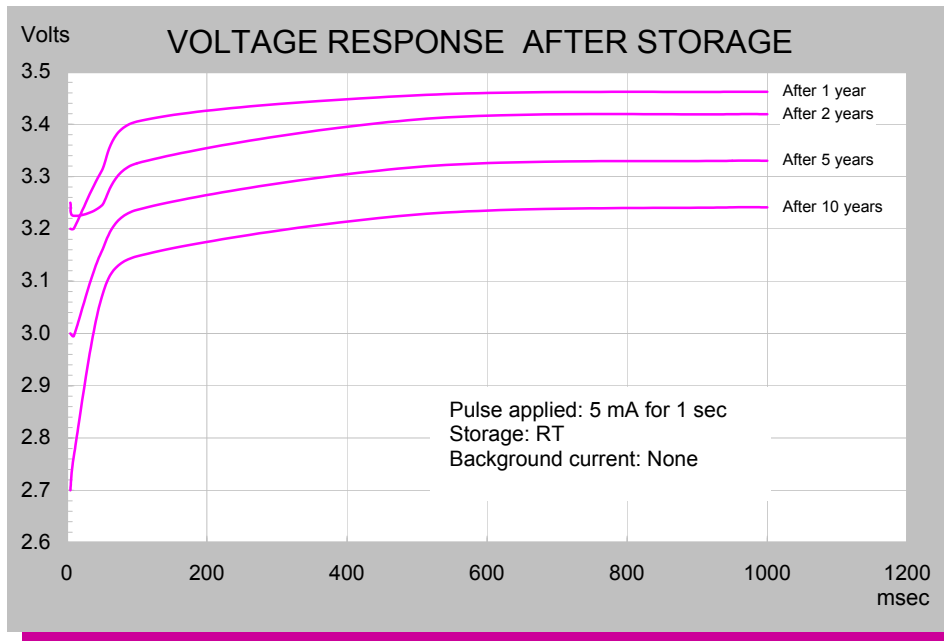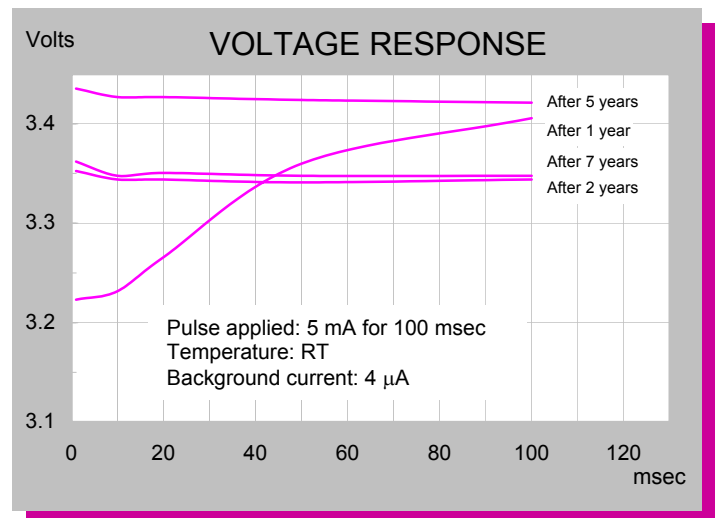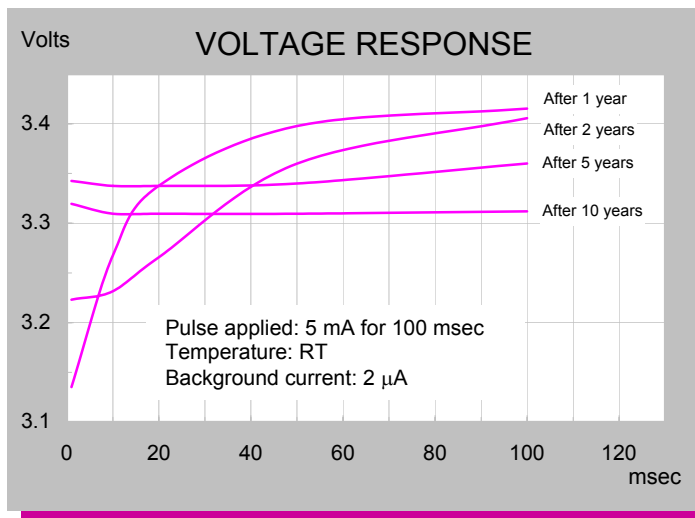(y-axis: 3.1, 3.2, 3.3, 3.4)

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Note: Any presentations in this data sheet concerning performance are for information purpose only and are not construed as warranties either expressed or implied, of future performance.

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