

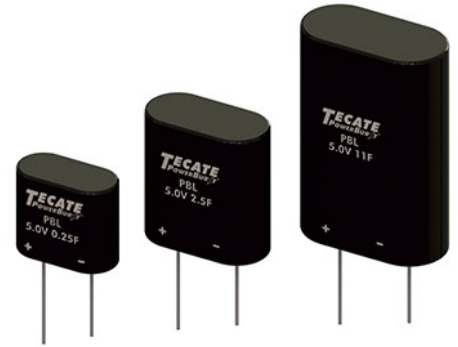
FEATURES



- Small size and low resistance
- Quick charge and discharge
- RoHS compliant
- UL recognized

APPLICATIONS

- Pulse power demand
- Hybrid battery packs
- Portable electronic devices

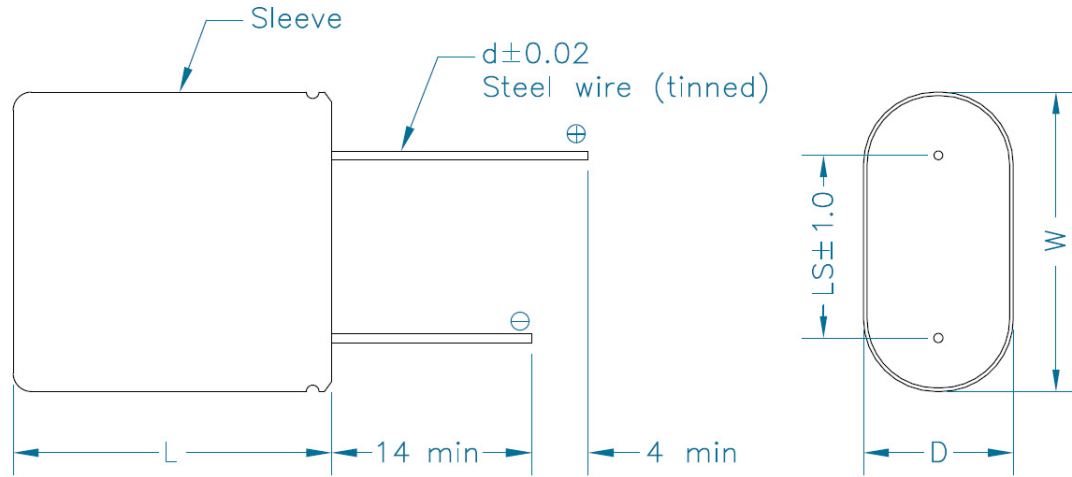


GENERAL SPECIFICATIONS

Item	Performance
Operating temperature	-40°C to +65°C @ 5V -40°C to +85°C @ 4.6V
Storage temperature	-40°C to +70°C
Capacitance range	0.25F to 15F
Rated voltage	5 VDC / 4.6 VDC
Surge voltage	5.7 VDC
Temperature characteristics	Capacitance change: Within ±5% of initial measured value at +25°C (-40°C to +85°C) Internal resistance: Within ±50% of initial measured value at +25°C (at -40°C)
Endurance (At rated voltage & max. operating temp)	After 1000 hours, the capacitor shall meet the following limits: Capacitance change: ±30% of initial rated value Internal resistance: Within 2 times of initial specified value
Projected Load life (At rated voltage & 25°C)	After 10 years: Capacitance change: Within ±30 % of initial rated value Internal resistance: Within 2 times of initial specified value
Projected cycle life (From rated voltage to 1/2 rated voltage at 25°C)	After 500,000 cycles: Capacitance change: Within ±30 % of initial rated value Internal resistance: Within 2 times of initial specified value
Shelf life	After 2 years at 25°C without load, the capacitor shall meet the specified endurance limits.

DIMENSIONS

Units = mm


STANDARD PRODUCTS

Part Number	Nom. Cap. (F)	GMV (F)*	ESR DC (m Ω)	ESR AC (m Ω) (1 KHz)	Leakage Current (mA) (72 hrs @ 25C)	Dimensions (mm)					Rated Current (A)
						D	L	W	d	LS	
PBL-0.25/5.0NB	0.25	0.23	3600	1400	0.002	10	17	18	0.6	12	0.36
PBL-0.5/5.0NB	0.5	0.45	1400	630	0.006	10	17	18	0.6	12	0.79
PBL-0.75/5.0NB	0.75	0.68	820	380	0.008	10	19	18	0.6	12	1.25
PBL-1.0/5.0NB	1	0.9	700	360	0.01	10	21	18	0.6	12	1.59
PBL-1.65/5.0NB	1.65	1.49	580	300	0.012	12	25	22	0.6	12	2.28
PBL-2.0/5.0NB	2	1.8	500	300	0.015	12	25	22	0.6	15.4	2.7
PBL-2.5/5.0NB	2.5	2.25	320	180	0.02	12	25	22	0.6	15.4	3.75
PBL-3.0/5.0NB	3	2.7	260	140	0.03	12	25	22	0.6	15.4	4.55
PBL-4.0/5.0NB	4	3.6	200	120	0.03	12	30	22	0.6	15.4	6
PBL-5.0/5.0NB	5	4.5	170	120	0.08	12	35	22	0.6	15.4	7.3
PBL-11.0/5.0NB	11	9.9	90	60	0.014	13.5	38.5	26	0.8	18.2	14.92
PBL-15.0/5.0NB	15	13.5	70	50	0.015	17.5	34.5	34	0.8	24.1	19.76

*NOTE: GMV = Guaranteed Minimum Value.