

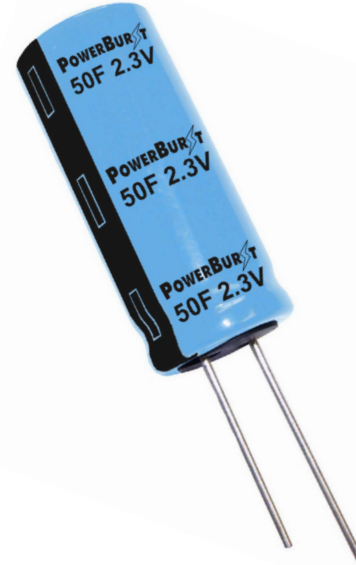


FEATURES

- Extended temperature 85°C
- Small size and low-resistance
- Quick charge & discharge
- RoHS compliant

APPLICATIONS

- Pulse power demand
- Hybrid battery packs
- Portable Electronic Devices



PART NUMBERING

Part Number Example: TPLE-5.0/10X20F					
TPLE	-	5.0	/	10X20	F
Type		Capacitance Code (F)		Size (D X L)	RoHs Compliant

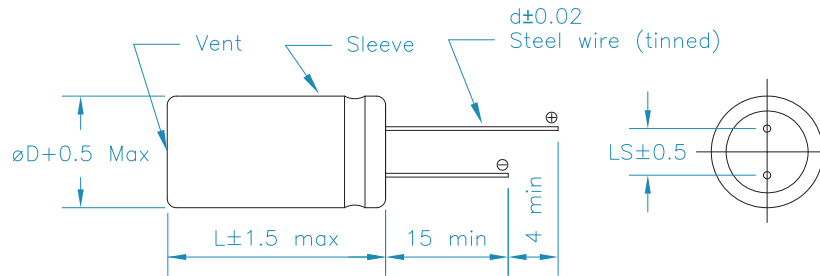
SPECIFICATIONS

Item	Performance		
Operating temperature	-40°C to +85°C		
Storage temperature	-40°C to +85°C		
Rated voltage	2.3 VDC		
Surge voltage	2.85 VDC		
Capacitance range	5.0F to 100.0F		
Capacitance tolerance	-0/+40%		
Characteristics at low temperature	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)	
Lifetime at 25°C	10 years	Capacitance change	±30 % of initial specified value
		Internal resistance	Within 2 times of initial specified value
Cycle life at 25°C	500,000 cycles	Capacitance change	±30 % of initial specified value
		Internal resistance	Within 2 times of initial specified value
Endurance	After 1000 hours application of 2.3 VDC at 85C, the capacitor shall meet the following limits:		
	Capacitance change	±30% of initial specified value	
	Internal resistance	Within 2 times of initial specified value	
Shelf life	After 1000 hours storage, at 85°C without load, the capacitor shall meet the specified endurance limits:		

DIMENSIONS



Units = mm



STANDARD PRODUCTS

Part Numbers	CAP. (F)	ESR/DC (mΩ)	ESR/AC 1kHz (mΩ)	Leakage Current (mA) (72 hrs @ 25C)	Size (mm)				Rated Voltage (VDC)	Typical Pkg. Qty.	Weight/unit (grams)
					D	L	d	LS			
TPLE-5.0/10X20F	5	170	100	0.015	10	20	0.6	5.0	2.3	100	2.3
TPLE-10/10X30F	10	75	50	0.030	10	30	0.6	5.0	2.3	100	4
TPLE-22/12X35F	22	45	30	0.045	12.5	35.5	0.8	5.3	2.3	50	6.5
TPLE-25/16X26F	25	42	28	0.045	16	26	0.8	7.5	2.3	50	7.5
TPLE-50/18X40F	50	20	15	0.075	18	40	0.8	7.5	2.3	50	13
TPLE-70/18X45F	70	20	14	0.100	18	45	0.8	7.5	2.3	50	16
TPLE-100/22X45F	100	15	10	0.260	22	45	1	9.5	2.3	25	23