


#### FEATURES

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

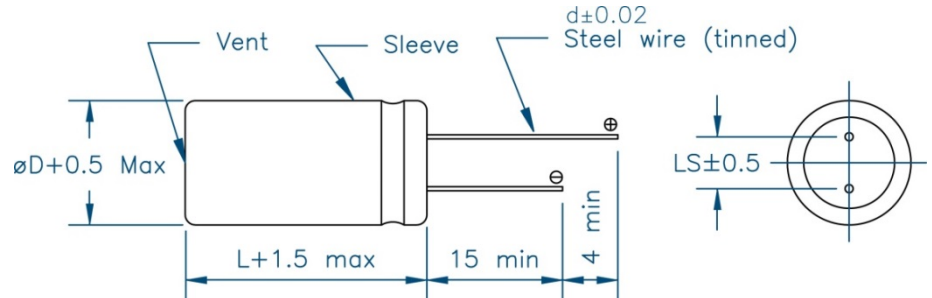
#### APPLICATIONS

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

#### PART NUMBERING

Part Number Example: TPL-38.0/12X46F					
TPL	-	38.0	/	12x46	F
Type		Capacitance Code (F)		Size (D X L)	RoHS Compliant

Units = mm



#### SPECIFICATIONS

Item	Performance		
Operating temperature	-40 ~ +65°C		
Storage temperature	-40 ~ +70°C		
Rated voltage	2.7 VDC		
Surge voltage	2.85 VDC		
Capacitance range	38.0F		
Capacitance tolerance	-10/+20%		
Characteristics at low temperature	Capacitance Change	Within ±5% of initial measured value at +25°C (-40 ~ +65°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 rated value
		Internal resistance	Within 2 times of initial specified value
Cycle life at 25°C	500,000 cycles	Capacitance change	±30% of initial rated value
		Internal resistance	Within 2 times of initial specified value
Endurance	After 1000 hours, application of 2.7V DC at 65°C, the capacitor shall meet the following limits:		
	Capacitance change	±30% of initial rated value	
	Internal resistance	Within 2 times of initial specified value	
Storage life	2 years at 25°C		

Part Numbers	CAP. (F)	ESR/DC (mΩ)	ESR/AC 1kHz (mΩ)	Leakage Current (mA) (72 hrs @ 25°C)	Size (mm)				Max Current 1s to 1/2V (A)	Isc (A)	Weight/unit (grams)
					D	L	d	LS			
TPL-38/12X46F	38	29	19	0.070	12.5	46	0.8	5.3	24.41	93.00	9.5

#### CONFIDENTIAL

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Specifications and dimensions are subject to change without notice.  
Please confirm technical specifications with Tecate Group before purchasing.

2015/04/07 Rev.00  
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