

FEATURES

- · Compact size and energy dense
- Higher voltage
- Quick charge and discharge
- RoHS & Reach compliant

APPLICATIONS

- Pulse power demand
- Ride thru power support
- Back up power
- Stand alone or augment existing energy/power source



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GENERAL SPECIFICATIONS

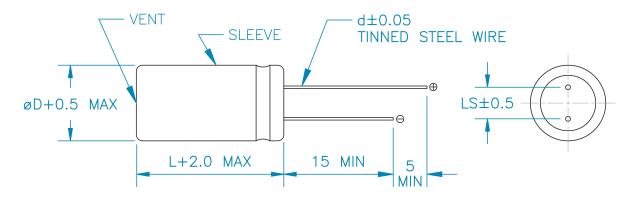
Item	Performance							
Operating temperature	-15°C to +70°C @ 3.8V							
Operating temperature	-15°C to +85°C @ 3.5V							
Storage temperature	-25°C to +70°C							
Capacitance	50F							
Capacitance tolerance	+/-20%							
Rated voltage	3.8 VDC / 3.5 VDC							
Minimum rated voltage	2.2 VDC							
Surge voltage	4.2 VDC							
Tanana and march and about the	Capacitance change: Within ±50% of initial measured value at +25°C (-15°C to +70°C)							
Temperature characteristics	Internal resistance: Within ±600% of initial measured value at +25°C (at -15°C)							
Endurance	After 1000 hours:							
(At rated voltage & max. operating	Capacitance change: ±30% of minimum rated value							
temp)	Internal resistance: Within 2 times of maximum rated value							
Projected cycle life	After 500,000 cycles: From 3.8V to 2.5V at 25°C							
	Capacitance change: Within ±30 % of minimum value							
	Internal resistance: Within 2 times of maximum rated value							
Shelf life	Three years at 25°C, or 1000hours at 70°C without load. The Capacitor shall meet the specified endurance limits.							

Spec. Date: 2025-05-29 16:21:50



HYBRID CAPACITOR (LIC)

DIMENSIONS



STANDARD PRODUCTS

Part Number		Nom.	ESR AC (mΩ)	ESR DC Typical	Leakage Current (μΑ)	Dimensions (mm)				Rated Current	Max Current*	Weight/Unit (grams)
		(F)	(1 KHz)	(mΩ)		D	L	d	LS	(A)	(A)	(9141113)
TPLC-3R8/50MR10X20	<i>8</i> 7	50	200	700	4.5	10	20	0.6	5	0.25	1.8	3

^{*} Maximum allowable current for 3 seconds or less.