

# EDLC 3.0V 100F

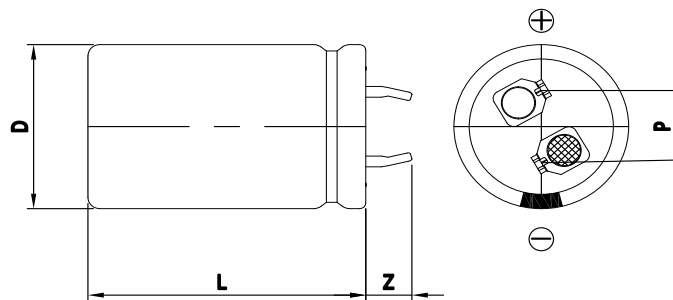


## FEATURES

Electric double layer capacitor  
 Higher power density with ultra low ESR  
 Semi-permanent, quick charge and discharge than batteries  
 Suitable for short-term peak power assistance application  
 UL and ISO/TS certificated, RoHS compliant  
 Radial design with 2-pin snap-in terminal type



## DIMENSIONS



Dimensions in mm			
D +1.5 Max	L ± 2.0	Z ± 1.0	P ± 0.2
Φ22.0	45.0	6.0	10.0

This drawing is not to be scaled.

## SPECIFICATIONS

Part Number	Rated Voltage, $V_R$ (V)	Rated Capacitance (F)	AC ESR 1kHz (mΩ)	DC IR (mΩ)	Maximum Current (A)	Leakage Current (mA)	Stored Energy (J)	Dimension D x L (mm)	Weight (g)
VEC 3R0 107 QG	3.0	100.	6.00	10.00	75.	0.300	450.0	22.0 x 45.0	20.0

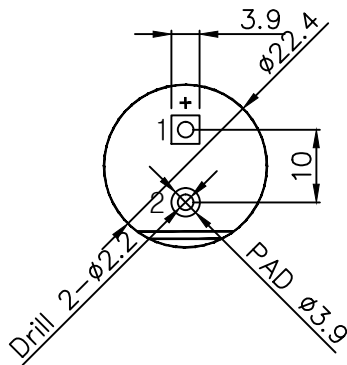
\* Maximum Current: 1 second discharge to  $\frac{1}{2} \cdot V_R$

\* Leakage Current: After 72hours at  $V_R$  and 25 °C

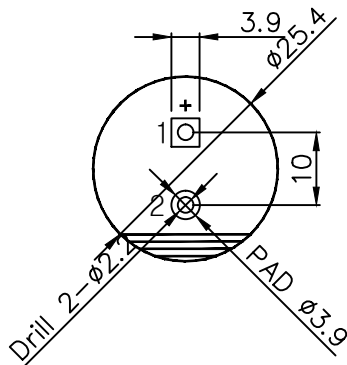
Item	Characteristics	Remarks
Rated Voltage( $V_R$ )	3.0V	
Capacitance Tolerance	-10 ~ 30%	
Operating Temperature ( $T_{min} \sim T_{max}$ )	-40 ~ +65 °C	$ \Delta cap  \leq 30\%$ of initial value at 25 °C $ \Delta ESR  \leq 100\%$ of specified value at 25 °C After 1,000 hours application of $V_R$ at $T_{max}$
Storage Temperature	-40 ~ 70 °C	
Cycle Life	500,000 cycles	$ \Delta cap  \leq 30\%$ of initial value at 25 °C $ \Delta ESR  \leq 100\%$ of specified value at 25 °C Cycles from $V_R$ to $\frac{1}{2} \cdot V_R$ under constant current at 25 °C
Shelf Life	2 years	$ \Delta cap  \leq 10\%$ of initial value at 25 °C $ \Delta ESR  \leq 50\%$ of specified value at 25 °C Without electrical charge under $T_{max}$

PLACE	REVISION	DATE	DESIGNED	CHECKED	APPROVED
①					
②					

SNAP-IN  $\phi 22$   
2PIN TYPE



SNAP-IN  $\phi 25$   
2PIN TYPE



NOTE : Pb Free Wave Soldering

P-003	LAND PATTERN EXAMPLE		--	--	-	-
NO.	NAME		MATERIAL	Q'TY	SPARE	SURFACE TREATMENT
PAPER SIZE : A4 (210X297)		3RD ANGLE PROJECTION		MACHINE NAME		
MACHINING	BASIC CHAMFER	CO.2	SCALE	PCB LAND PATTERN EXAMPLE		
	UNSPECIFIED TOLERANCE		NONE NTS			
OF	1 ~ 4	$\pm 0.05$	63 ~ 250	$\pm 0.3$	DRAWN	DESIGNED
METALS	4 ~ 16	$\pm 0.1$	250 ~ 1000	$\pm 0.5$	CHECKED	APPROVED
	16 ~ 63	$\pm 0.2$	1000 ~ 2000	$\pm 0.8$		
					DATE	2015. 06. 30
					STOCK NO.	
					DRAWING NO.	-
					FILE NO.	