## 2-Serial Module 5.0V 2.5F

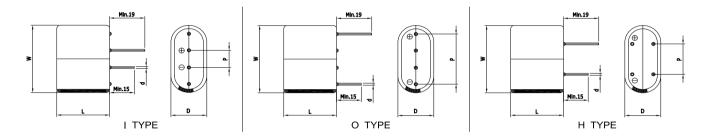


## **FEATURES**

Electric double layer capacitor
2 cells serially connected supercapacitor
Semi-permanent, quick charge and discharge than batteries
Suitable for smart meter or car driving recorder application
UL and ISO/TS certificated, RoHS compliant
Radial design with lead terminal type customized in 3 ways



## **DIMENSIONS**



Dimensions in mm						
D +0.1 Max	W ± 1.0	L ± 1.5	d ± 0.1		P ± 0.2	
Ф8.5	17.0	27.0	Ф0.6	l: 4.7	O: 12.3	H: 8.5

This drawing is not to be scaled.

## **SPECIFICATIONS**

Part Number	Rated Voltage, V <sub>R</sub>	Rated Capacitance	AC ESR 1kHz	DC IR	Maximum Current	Leakage Current	Stored Energy	Dimension D x W x L	Weight
	(V)	(F)	$(m\Omega)$	$(m\Omega)$	(A)	(mA)	(J)	(mm)	(g)
VEC 5R0 255 QA-X	5.0	2.5	245.00	405.00	3.	0.010	31.3	8.5 x 17.0 x 27.0	4.6

<sup>\*</sup> X is variant type code such as I, O or H.

Item	Characteristics	Remarks
Rated Voltage(V <sub>R</sub> )	5.0V	
Capacitance Tolerance	-10 ~ +30%	
Operating Temperature (T <sub>min</sub> ~ T <sub>max</sub> )		Δcap  ≤ 30% of initial value at 25 °C
	-25 ~ +70 ℃	ΔESR  ≤ 100% of specified value at 25 ℃
		After 1,000 hours application of $V_R$ at $T_{max}$
Storage Temperature	-40 ~ 70℃	
		Δcap  ≤ 30% of initial value at 25 ℃
Cycle Life	500,000 cycles	ΔESR  ≤ 100% of specified value at 25 ℃
		Cycles from $V_R$ to $1/2 \cdot V_R$ under constant current at 25°C
	2 years	Δcap  ≤ 10% of initial value at 25 ℃
Shelf Life		ΔESR  ≤ 50% of specified value at 25 ℃
		Without electrical charge under T <sub>max</sub>



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<sup>\*</sup> Maximum Current: 1 second discharge to ½·V<sub>R</sub>