2-Serial Module 5.0V 0.5F

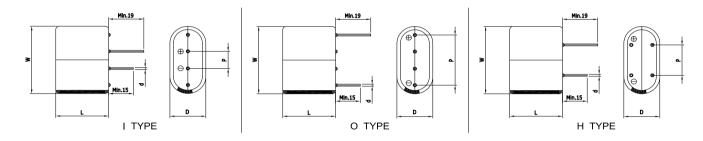


FEATURES

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	15.5	Ф0.6	l: 4.7	O: 12.3	H: 8.5	

This drawing is not to be scaled.

SPECIFICATIONS

Part Number	Rated Voltage, V _R	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 504 QG-X	5.0	0.5	805.00	1,205.00	0.5	0.002	6.3	8.5 x 17.0 x 15.5	3.0

^{*} X is variant type code such as I, O or H.

Item	Characteristics	Remarks
Rated Voltage(V _R)	5.0V	
Capacitance Tolerance	-10 ~ +30%	
O T		Δcap ≤ 30% of initial value at 25 ℃
Operating Temperature (T _{min} ~ T _{max})	-25 ~ +70 ℃	ΔESR ≤ 100% of specified value at 25 ℃
(· IIIIII · IIIax/		After 1,000 hours application of V_R at T_{max}
Storage Temperature	-40 ~ 70℃	
		∆cap ≤ 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 _{max}



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^{*} Maximum Current: 1 second discharge to ½·V_R