



EnyGy® enyCell Series Datasheet (Electric Double Layer Capacitors)
Radial Type and Module Type

- Endurance: 3.0V 65°C 1000 hours
- High capacitance and small size
- Low ESR
- Long cycle life
- UL Recognized cell components*
- RoHS compliant

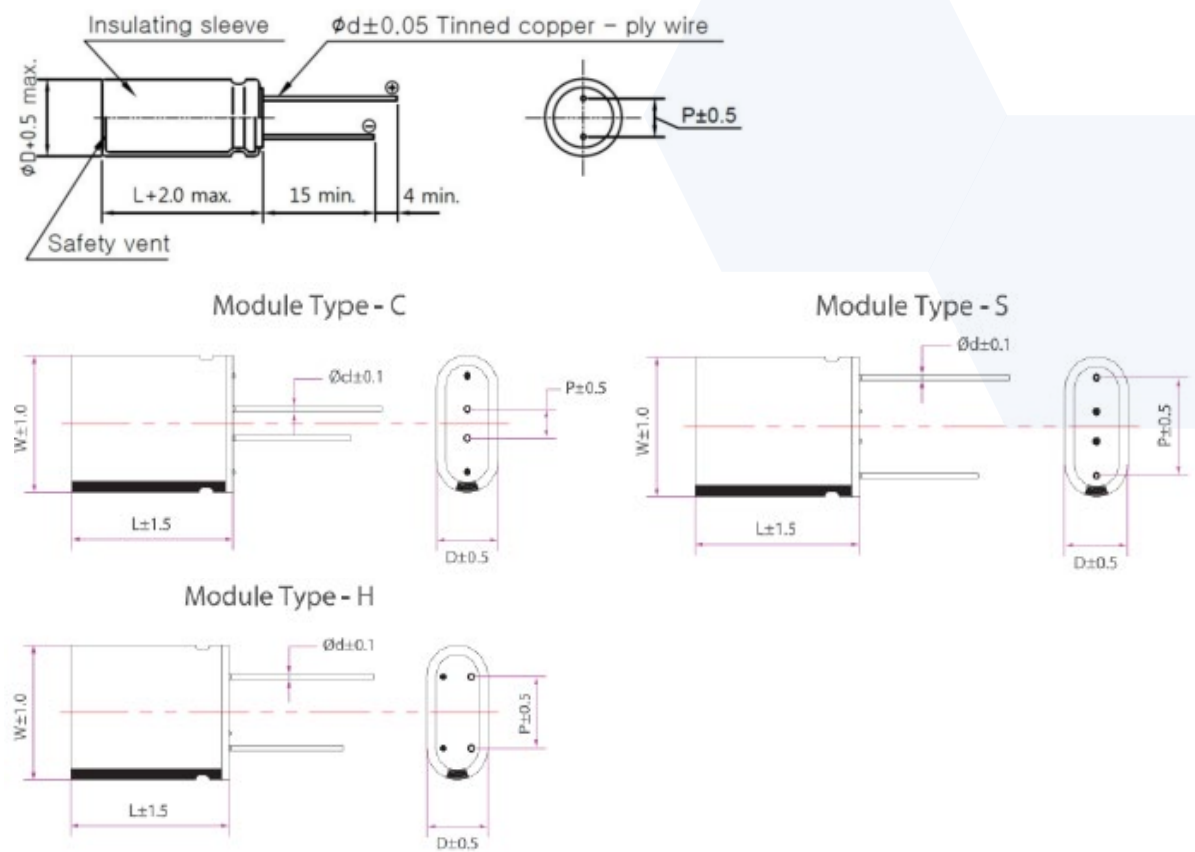


Characteristics

Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	3.0 VDC (radial type) 6.0 VDC (module type)	
Capacitance Tolerance	-10% ~ +20%	
Temperature Characteristics	Capacitance change	Within ±5% of initial value at +25°C
	Internal resistance	Within ±50% of initial value at +25°C
Endurance	Duration	1000 hours
	Capacitance charge	Within ≤30% of initial value
	Internal resistance	Within ≤100% of initial specified value
Shelf Life	After 1000 hours no load test same as endurance	
Lifetime at RT ⁽¹⁾	10 years	
Cycle Life(25°C) ⁽²⁾	500,000 cycles	

(1) |ΔC| ≤30% of initial value and | ESR | ≤100% of initial specified value.
(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C.

Dimensions Unit:mm



Standard Products enyCell Series

Part Number	Capacitance (F)	Rated Voltage (V)	ESR, DC (mΩ)	ESR, 1kHz (mΩ)	LC(72hr) (mA)	Dimensions (mm)				Max. Peak Current (A)	Specific Energy (Wh/kg)	Specific Power (kW/kg)	Weight (g)
						D	L	P	Φd				
EC3R030508020S	3	3.0	75	45	0.010	8.0	20.0	3.5	0.6	3.67	2.50	20.00	1.50
EC3R050510020S	5	3.0	50	35	0.015	10.0	20.0	5.0	0.6	6.00	2.72	19.57	2.30
EC3R010610030S	10	3.0	45	25	0.030	10.0	30.0	5.0	0.6	10.34	3.79	15.15	3.30
EC3R015612525S	15	3.0	35	20	0.050	12.5	25.0	5.0	0.6	14.75	4.17	14.29	4.50
EC3R025616025S	25	3.0	27	15	0.070	16.0	25.0	7.5	0.8	22.39	4.22	11.26	7.40
EC3R033618032S	33	3.0	22	13	0.100	18.0	32.0	7.5	0.8	28.68	4.08	10.23	10.10
EC3R050618040S	50	3.0	20	10	0.150	18.0	40.0	7.5	0.8	37.50	4.81	8.65	13.00
EC3R010722045S	100	3.0	18	8	0.300	22.0	45.0	10.0	1.0	53.57	5.56	5.56	22.50

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						L	W	D	P			Φd	Single Cell Size (ΦD x L)				
									Type-C	Type-S	Type-H						
EC6R015508020M	1.5	6.0	150	90	0.015	22.0	16.0	8.5	4.9	12.0	8.5	0.6	8 x 20	3.67	2.50	20.00	3.00
EC6R025510020M	2.5	6.0	100	70	0.020	22.0	21.0	10.5	5.5	15.5	10.5	0.6	10 x 20	6.00	2.72	19.57	4.60
EC6R050510030M	5	6.0	90	50	0.060	32.0	21.0	10.5	5.5	15.5	10.5	0.6	10 x 30	10.34	3.79	15.15	6.60