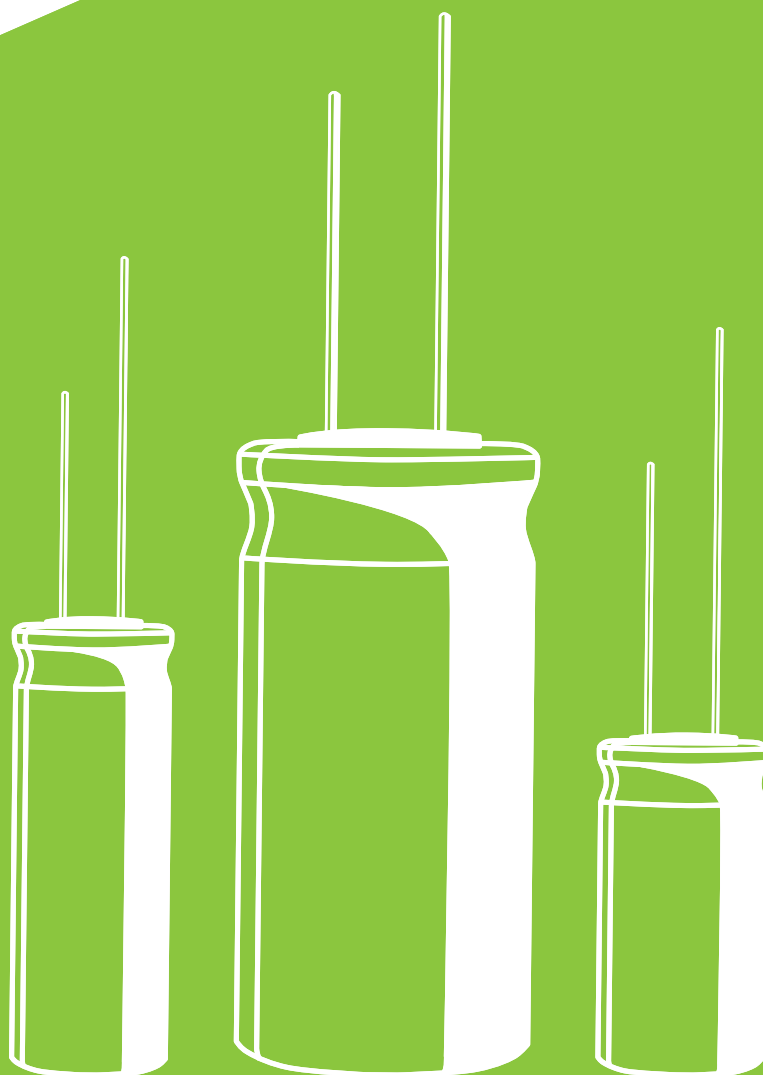




PURIXEL

Purechem Co.,Ltd. Company Report



PURIXEL PACKING

Radial Type Packing

FIGURE 1
Radial type(vinyl bag)

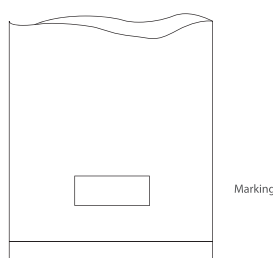


FIGURE 2
Radial type(Inner box)

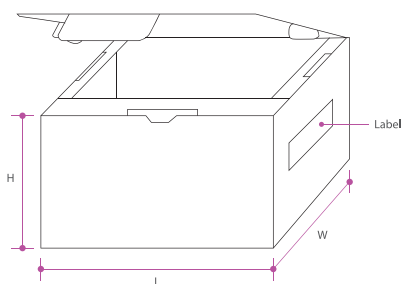
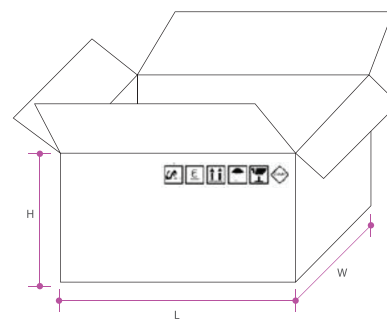


FIGURE 3
Radial type(Middle box)



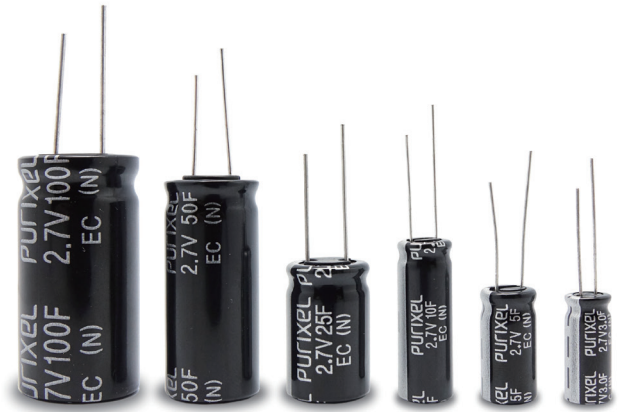
Dimension(Middle box)

ΦD × L	Width	Height	Height	Q'ty(pcs)
08x20	470	300	305	9,600
10x20	470	300	305	6,400
10x30	470	300	305	4,800
12.5x25	470	300	305	4,000
16x25	470	300	305	2,000
18x32	470	300	305	1,600
18x40	470	300	305	1,200
22x45	470	300	305	600
08x20 (module)	470	300	305	4,800
10x20 (module)	470	300	305	3,200
10x30 (module)	470	300	305	2,000



PEC

Radial Type
Standard Series



Features

- Endurance : 2.7V 65°C 1500 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries

Characteristics

Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	2.7VDC	
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	1500 hours
	Capacitance change	Within ≤ 30 % of initial value
	Internal resistance	Within ≤ 100 % of initial specified value
Shelf Life	After 1500 hours no load test same as endurance	
Life Time at RT⁽¹⁾	10 years	(1) ΔC ≤ 30% of initial value and ΔESR ≤ 100% initial specified value
Cycle Life(25°C)⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

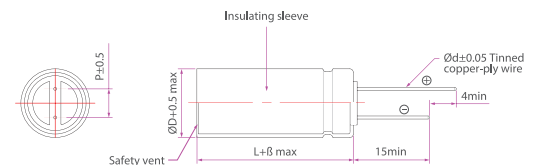
Applications

- Remote Control Self Charge
- Wireless & Setop Box Back up
- Notebook & Tablet PC Memory Backup
- Electronic Device & Tools Back up Power Stand
- Black Box & Car Audio Recorder Battery Assist
- Power Saving SMPS
- Copy Machine Heating Backup
- Digital Camera

Dimensions

unit(mm)

ØD	P	d	β
8	3.5	0.6	1.5
10	5.0	0.6	2.0
12.5	5.0	0.6	
16	7.5	0.8	
18	7.5	0.8	3.0
22	10.0	1.0	



Specifications

Rated Voltage (V)	Capacitance (F)	ESR, 1kHz (mΩ)	ESR, DC (mΩ)	LC (72hr) (mA Max.)	Specific Energy (Wh/kg)	Specific Power (kW/kg)	Max. Peak Current (A)	Weight (g)	Volume (mL)	Dimension(mm) D x L	PART No.
2.7V	3	45	70	0.007	2.17	18.60	3.35	1.40	1.00	8 x 20	PEC02R7SN30508020
	5	40	45	0.010	2.41	19.29	5.51	2.10	1.57	10 x 20	PEC02R7SN50510020
	10	25	40	0.023	3.07	13.81	9.64	3.30	2.36	10 x 30	PEC02R7SN10610030
	15	20	35	0.030	3.38	11.57	13.28	4.50	3.07	12.5 x 25	PEC02R7SN15612525
	25	15	25	0.045	3.47	9.99	20.77	7.30	5.02	16 x 25	PEC02R7SN25616025
	33	13	20	0.060	3.34	9.11	26.84	10.00	8.14	18 x 32	PEC02R7SN33618032
	50	9	15	0.075	3.89	9.35	38.57	13.00	10.17	18 x 40	PEC02R7SN50618040
	100	8	13	0.180	4.82	6.68	58.70	21.00	17.10	22 x 45	PEC02R7SN10722045

Part Number

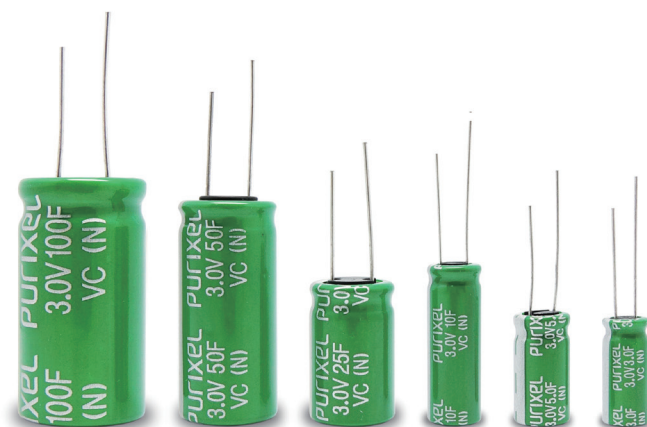
P	E	C	0	2	R	7	S	N	3	0	5	0	8	0	2	0
Series Code			Voltage, Terminal Symbol				Cell type	Class	Cap. Symbol			D Size x L Size				

PVC

Radial Type
Standard Series

Features

- Endurance : 3.0V 65°C 1000 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries



Characteristics

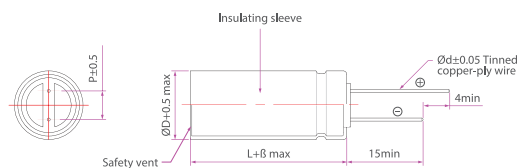
Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	3.0 VDC	
Capacitance Tolerance	-10 ~ +20%	
Temperature Characteristics	Capacitance change	Within ± 5% of initial value at +25°C
	Internal resistance	Within ± 150% of initial value at +25°C
Endurance	Duration	1000 hours
	Capacitance change	Within ≤ 30 % of initial value
	Internal resistance	Within ≤ 100 % of initial specified value
Shelf Life	After 1000 hours no load test same as endurance	
Life Time at RT ⁽¹⁾	10 years	(1) ΔC ≤ 30% of initial value and ΔESR ≤ 100% initial specified value
Cycle Life(25°C) ⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

Applications

- Remote Control Self Charge
- Wireless & Setop Box Back up
- Notebook & Tablet PC Memory Backup
- Electronic Device & Tools Back up Power Stand
- Black Box & Car Audio Recorder Battery Assist
- Power Saving SMPS
- Copy Machine Heating Backup
- Digital Camera

Dimensions

unit(mm)			
∅D	P	d	β
8	3.5	0.6	1.5
10	5.0	0.6	
12.5	5.0	0.6	2.0
16	7.5	0.8	
18	7.5	0.8	
22	10.0	1.0	3.0



Specifications

Rated Voltage (V)	Capacitance (F)	ESR, 1kHz (mΩ)	ESR, DC (mΩ)	LC (72hr) (mA Max.)	Specific Energy (Wh/kg)	Specific Power (kW/kg)	Max. Peak Current (A)	Weight (g)	Volume (mL)	Dimension(mm) D x L	PART No.
3.0V	3	45	70	0.010	2.34	20.09	3.72	1.60	1.00	8 x 20	PVC03R0SN30508020
	5	40	45	0.015	2.72	21.74	6.12	2.30	1.57	10 x 20	PVC03R0SN50510020
	10	25	40	0.030	3.57	16.07	10.71	3.50	2.36	10 x 30	PVC03R0SN10610030
	15	20	35	0.050	4.17	14.29	14.75	4.50	3.07	12.5 x 25	PVC03R0SN15612525
	25	15	25	0.070	4.17	12.00	23.08	7.50	5.02	16 x 25	PVC03R0SN25616025
	33	13	20	0.100	4.08	11.14	29.82	10.10	8.14	18 x 32	PVC03R0SN33618032
	50	10	15	0.150	4.63	11.11	42.86	13.50	10.17	18 x 40	PVC03R0SN50618040
	100	8	13	0.300	5.95	8.24	65.22	21.00	17.10	22 x 45	PVC03R0SN10722045

Part Number

PVC	03R0	S	N	305	08020
Series Code	Voltage, Terminal Symbol	Cell type	Class	Cap. Symbol	D Size x L Size

PTC

Radial Type
Standard Series

Features

- Endurance : 2.7V 85°C 1000 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries



Characteristics

Operating Temperature Range	-40 ~ +85°C	
Rated Voltage	2.7 VDC	
Capacitance Tolerance	-10 ~ +20%	
Temperature Characteristics	Capacitance change	Within ± 5% of initial value at +25°C
	Internal resistance	Within ± 150% of initial value at +25°C
Endurance	Duration	1000 hours
	Capacitance change	Within ≤ 30 % of initial value
	Internal resistance	Within ≤ 200 % of initial specified value
Shelf Life	After 1000 hours no load test same as endurance	
Life Time at RT⁽¹⁾	10 years	(1) ΔC ≤ 30% of initial value and ΔESR ≤ 200% initial specified value
Cycle Life(25°C)⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

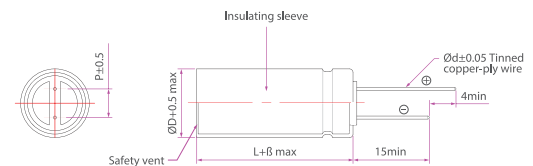
Applications

- Remote Control Self Charge
- Wireless & Setop Box Back up
- Notebook & Tablet PC Memory Backup
- Electronic Device & Tools Back up Power Stand
- Black Box & Car Audio Recorder Battery Assist
- Power Saving SMPS
- Copy Machine Heating Backup
- Digital Camera

Dimensions

unit(mm)

∅D	P	d	β
8	3.5	0.6	1.5
10	5.0	0.6	
12.5	5.0	0.6	2.0
16	7.5	0.8	
18	7.5	0.8	
22	10.0	1.0	3.0



Specifications

Rated Voltage (V)	Capacitance (F)	ESR, 1kHz (mΩ)	ESR, DC (mΩ)	LC (72hr) (mA Max.)	Specific Energy (Wh/kg)	Specific Power (kW/kg)	Max. Peak Current (A)	Weight (g)	Volume (mL)	Dimension(mm) D x L	PART No.
2.7V	3	45	70	0.010	1.90	16.27	3.35	1.60	1.00	8 x 20	PTC02R7SN30508020
	5	40	45	0.015	2.20	17.61	5.51	2.30	1.57	10 x 20	PTC02R7SN50510020
	10	25	40	0.030	2.89	13.02	9.64	3.50	2.36	10 x 30	PTC02R7SN10610030
	15	20	35	0.050	3.38	11.57	13.28	4.50	3.07	12.5 x 25	PTC02R7SN15612525
	25	15	25	0.070	3.38	9.72	20.77	7.50	5.02	16 x 25	PTC02R7SN25616025
	33	13	20	0.100	3.31	9.02	26.84	10.10	8.14	18 x 32	PTC02R7SN33618032
	50	10	15	0.150	3.75	9.00	38.57	13.50	10.17	18 x 40	PTC02R7SN50618040
	100	8	13	0.300	4.82	6.68	58.70	21.00	17.10	22 x 45	PTC02R7SN10722045

Part Number

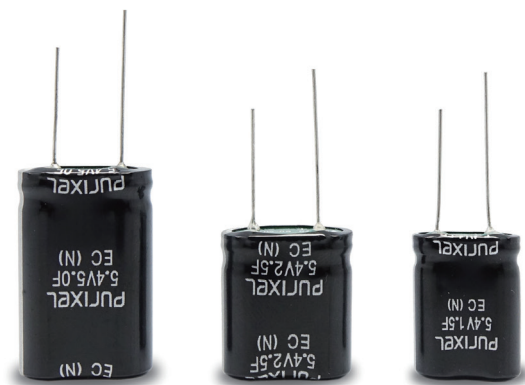
P T C	0 2 R 7	S	N	3 0 5	0 8 0 2 0
Series Code	Voltage, Terminal Symbol	Cell type	Class	Cap. Symbol	D Size x L Size

PEC

Module Type
Standard Series

Features

- Endurance : 5.4V 65°C 1500 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries



Characteristics

Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	5.4 VDC	
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	1500 hours
	Capacitance change	Within ≤ 30 % of initial value
	Internal resistance	Within ≤ 100 % of initial specified value
Shelf Life	After 1500 hours no load test same as endurance	
Life Time at RT ⁽¹⁾	10 years	(1) $ \Delta C \leq 30\%$ of initial value and $ \Delta ESR \leq 100\%$ initial specified value
Cycle Life(25°C) ⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

Applications

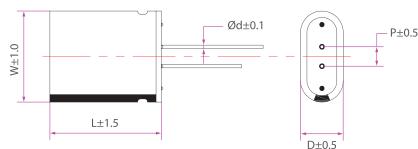
- Remote Control Self Charge
- Wireless & Setop Box Back up
- Notebook & Tablet PC Memory Backup
- Electronic Device & Tools Back up Power Stand
- Black Box & Car Audio Recorder Battery Assist
- Power Saving SMPS
- Copy Machine Heating Backup
- Digital Camera

Dimensions

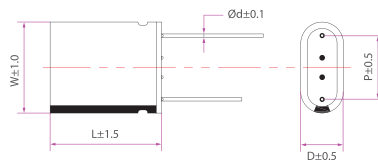
unit(mm)

Type C	P			Ød	Single Cell Size ØD x L
	Type S	Type H			
4.9	12.2	8.5		0.6	8 x 20
5.5	15.5	10.5		0.6	10 x 20
5.5	15.5	10.5		0.6	10 x 30

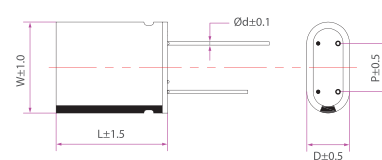
Module Type - C



Module Type - S



Module Type - H



Specifications

Rated Voltage (V)	Capacitance (F)	ESR, 1kHz (mΩ)	ESR, DC (mΩ)	LC (72hr) (mA Max.)	Specific Energy (Wh/kg)	Specific Power (kW/kg)	Max. Peak Current (A)	Weight (g)	Dimension(mm) L x W x D	PART No.
5.4V	1.5	90	140	0.015	1.79	15.32	3.35	3.40	22.0 x 17.0 x 8.5	PEC05H4MN15508020
	2.5	80	90	0.020	2.03	16.20	5.51	5.00	22.0 x 21.0 x 10.5	PEC05H4MN25510020
	5.0	50	80	0.046	2.89	13.02	9.64	7.00	32.0 x 21.0 x 10.5	PEC05H4MN50510030

Part Number



PVC

Module Type
Standard Series

Features

- Endurance : 6.0V 65°C 1000 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries



Characteristics

Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	6.0 VDC	
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 change	Within ≤ 30 % of initial value
	Internal resistance	Within ≤ 100 % of initial specified value
Shelf Life	After 1000 hours no load test same as endurance	
Life Time at RT ⁽¹⁾	10 years	(1) ΔC ≤30% of initial value and ΔESR ≤100% initial specified value
Cycle Life(25°C) ⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

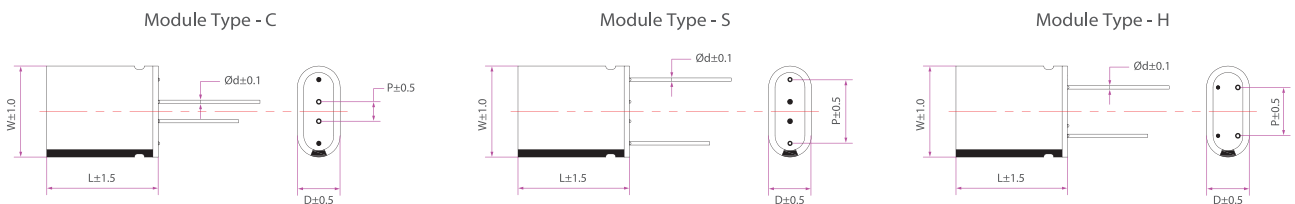
Applications

- Remote Control Self Charge
- Wireless & Setop Box Back up
- Notebook & Tablet PC Memory Backup
- Electronic Device & Tools Back up Power Stand
- Black Box & Car Audio Recorder Battery Assist
- Power Saving SMPS
- Copy Machine Heating Backup
- Digital Camera

Dimensions

unit(mm)

Type C	P		Ød	Single Cell Size ØD x L
	Type S	Type H		
4.9	12.2	8.5	0.6	8 x 20
5.5	15.5	10.5	0.6	10 x 20
5.5	15.5	10.5	0.6	10 x 30



Specifications

Rated Voltage (V)	Capacitance (F)	ESR, 1kHz (mΩ)	ESR, DC (mΩ)	LC (72hr) (mA Max.)	Specific Energy (Wh/kg)	Specific Power (kW/kg)	Max. Peak Current (A)	Weight (g)	Dimension(mm) L x W x D	PART No.
6.0V	1.5	90	140	0.015	2.21	18.91	3.72	3.40	22.0 x 16.0 x 8.5	PVC06H0MN15508020
	2.5	80	90	0.020	2.50	20.00	6.12	5.00	22.0 x 21.0 x 10.5	PVC06H0MN25510020
	5.0	50	80	0.060	3.57	16.07	10.71	7.00	32.0 x 21.0 x 10.5	PVC06H0MN50510030

Part Number





Purechem Co.,Ltd.

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