

Supercapacitor Selection Guide



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Series		Cylindrical Monomer					Cylindrical module										coin type										(SMD Mount)			Hybrid						
		CXHP	CHV	CHQ	CHW	CXP	CNP	CHP	CHPV	CHT	CSP	CZP	CPM	CHM	CHMV	CMZ	CB	CBN	CBH	CBW	CBL	CBS	CE	CEN	CH	CK	CW	CWH	CSN	CSV	CST	LIC	LIB			
Energy	Wind/Solar		•	•		•									•																		•			
	Car start		•	•											•																					
	Microgrid	•													•																					
	Utility T&D														•																					
	Metering									•				•										•	•			•	•					•	•	
Industrial	Mission critical power		•	•					•						•				•				•	•	•		•	•					•	•		
	IoT	•	•		•	•		•		•	•		•		•												•	•					•			
	Material handling		•	•											•																			•		
	Manufacturing automation	•	•	•						•						•																		•		
	Building & home control	•	•		•	•				•			•		•		•	•		•	•		•	•		•	•	•						•		
Medical	Hospital systems				•					•			•	•	•				•	•		•	•		•	•	•									
	Critical power UPS		•		•					•	•			•					•	•		•	•		•	•	•									
	Equipment peak power		•		•						•			•	•											•	•									
	Personal	•	•											•					•	•	•		•	•	•	•										
	Ventilator									•									•	•	•		•	•		•	•									
Transportation	Rail & traction		•	•											•																			•		
	Safety systems	•	•		•	•				•	•	•			•							•	•		•	•	•							•		
	Asset tracking	•	•		•	•				•	•	•					•		•	•	•	•	•	•	•	•	•							•		
computer	Servers Storage	•	•		•	•				•	•	•			•																				•	
	Data center UPS	•	•		•	•				•	•	•			•	•	•		•	•	•	•	•	•	•	•	•							•	•	
	Wireless communication	•	•		•	•				•	•	•			•	•	•		•	•	•	•	•	•	•	•	•									
Consumer Electronics	household appliances				•					•								•	•		•	•		•	•	•										
	Toy	•	•		•	•				•	•			•												•	•	•								
	reserve	•	•	•	•	•				•	•	•	•	•	•																			•	•	

Feature

- Low leakage current, long life
- High power,high energy density
- Small size and low-resistance
- Long cycle life,maintenance-free
- REACH,RoHS Directive Compliant

Application

- Consumerelectronics,
- GSM/GPRS Pulse applications,
- Back up power,
- Stand alone or augment existing,
- energy/power source.

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			D	L				
CXHP2R7154R-TW	2.7	0.15	4	10	1000	0.001	0.09	-40° C to +70° C
CXHP2R7224R-TW	2.7	0.22	4	10	1000	0.001	0.09	-40° C to +70° C
CXHP2R7224R-TWX	2.7	0.22	5	10	700	0.002	0.10	-40° C to +70° C
CXHP2R7304R-TW	2.7	0.3	4	10	700	0.002	0.11	-40° C to +70° C
CXHP2R7354R-TW	2.7	0.35	5	10	600	0.002	0.15	-40° C to +70° C
CXHP2R7504R-TWX	2.7	0.5	5	12	600	0.003	0.15	-40° C to +70° C
CXHP2R7504R- TW	2.7	0.5	6.3	12	240	0.006	0.14	-40° C to +70° C
CXHP2R7604R-TW	2.7	0.6	4	22	700	0.003	0.16	-40° C to +70° C
CXHP2R7105R-TWV	2.7	1	4	25	550	0.003	0.18	-40° C to +70° C
CXHP2R7105R-TWX	2.7	1	6.3	12	300	0.006	0.16	-40° C to +70° C
CXHP2R7125R-TWX	2.7	1.2	6.3	11	200	0.003	0.18	-40° C to +70° C
CXHP2R7125R-TW	2.7	1.2	5	22	200	0.006	0.33	-40° C to +70° C
CXHP2R7255R-TW	2.7	2.5	5	22	200	0.006	0.33	-40° C to +70° C
CXHP2R7335R-TWX	2.7	3.3	6.3	22	90	0.010	0.53	-40° C to +70° C
CXHP2R7405R-TWV	2.7	4	6.3	25	90	0.010	0.53	-40° C to +70° C
CXHP2R7105R- TW	2.7	1	8	12	160	0.006	0.47	-40° C to +70° C
CXHP2R7205R- TW	2.7	2	8	12	100	0.010	0.49	-40° C to +70° C
CXHP2R7205R- TWQ	2.7	2	8	20	100	0.012	0.55	-40° C to +70° C
CXHP2R7255R- TW	2.7	2.5	8	16	130	0.025	0.59	-40° C to +70° C
CXHP2R7305R- TWX	2.7	3	8	16	130	0.012	0.59	-40° C to +70° C
CXHP2R7305R- TW	2.7	3	8	20	100	0.012	0.65	-40° C to +70° C
CXHP2R7335R- TW	2.7	3.3	8	20	100	0.012	0.74	-40° C to +70° C
CXHP2R7405R- TW	2.7	4	10	20	70	0.015	0.79	-40° C to +70° C
CXHP2R7475R- TW	2.7	4.7	10	20	72	0.017	0.75	-40° C to +70° C
CXHP2R7505R-TWX	2.7	5	8	25	90	0.015	0.87	-40° C to +70° C
CXHP2R7505R- TW	2.7	5	10	20	75	0.015	0.97	-40° C to +70° C
CXHP2R7605R- TW	2.7	6	10	20	75	0.020	0.97	-40° C to +70° C
CXHP2R7705R- TW	2.7	7	10	20	75	0.020	0.97	-40° C to +70° C
CXHP2R7705R- TWX	2.7	7	8	25	90	0.015	0.87	-40° C to +70° C
CXHP2R7705R-TWQ	2.7	7	8	30	60	0.028	1.43	-40° C to +70° C
CXHP2R7805R- TW	2.7	8	10	25	60	0.020	0.93	-40° C to +70° C
CXHP2R7805R- TWX	2.7	8	12.5	20	60	0.020	1.35	-40° C to +70° C
CXHP2R7106R-TWV	2.7	10	8	30	60	0.028	1.61	-40° C to +70° C
CXHP2R7106R- TW	2.7	10	10	25	65	0.030	1.15	-40° C to +70° C
CXHP2R7106R- TWQ	2.7	10	10	30	50	0.030	1.43	-40° C to +70° C
CXHP2R7106R-TWX	2.7	10	12.5	20	45	0.030	1.42	-40° C to +70° C
CXHP2R7126R- TW	2.7	12	12.5	20	50	0.036	1.35	-40° C to +70° C
CXHP2R7156R- TW	2.7	15	12.5	25	40	0.050	1.80	-40° C to +70° C
CXHP2R7156R- TWX	2.7	15	12.5	20	45	0.040	1.42	-40° C to +70° C
CXHP2R7186R- TW	2.7	18	12.5	25	40	0.055	1.66	-40° C to +70° C
CXHP2R7206R- TW	2.7	20	12.5	25	30	0.060	2.70	-40° C to +70° C
CXHP2R7206R- TWQ	2.7	20	12.5	30	35	0.055	1.93	-40° C to +70° C
CXHP2R7256R- TW	2.7	25	16	25	27	0.060	2.09	-40° C to +70° C
CXHP2R7306R- TW	2.7	30	16	30	20	0.070	2.53	-40° C to +70° C
CXHP2R7356R-TW	2.7	35	16	35	19	0.086	3.24	-40° C to +70° C
CXHP2R7346R-TW	2.7	34	12.5	46	20	0.080	3.01	-40° C to +70° C
CXHP2R7406R-TWX	2.7	40	12.5	46	20	0.080	3.01	-40° C to +70° C
CXHP2R7506R- TW	2.7	50	18	40	16	0.105	3.96	-40° C to +70° C
CXHP2R7506R- TWQ	2.7	50	12.5	50	18	0.105	3.40	-40° C to +70° C
CXHP2R7606R- TW	2.7	60	18	40	15	0.150	4.09	-40° C to +70° C
CXHP2R7706R- TW	2.7	70	18	40	15	0.125	4.05	-40° C to +70° C
CXHP2R7826R- TW	2.7	82	18	40	15	0.140	4.05	-40° C to +70° C
CXHP2R7107R-TWV	2.7	100	18	60	13	0.240	5.30	-40° C to +70° C
CXHP2R7127R- TWV	2.7	120	18	60	13	0.280	5.30	-40° C to +70° C

CXHP



Feature

- Low leakage current, long life
- High power,high energy density
- High reliability
- Long cycle life,maintenance-free
- REACH,RoHS Directive Compliant

Application

- Smart meters
 - GPS and asset tracking devices
 - RF Radio
 - Storage server
 - Industrial backup/power compensation
 - Car safety devices
- (Driving records, emergency door locks, electronic calls...)

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			D	L				
CHV-2R7105R-TWX	2.7	1	6.3	12	200	0.006	0.16	-40° C to +65° C
CHV-2R7105R-TW	2.7	1	8	12	150	0.006	0.38	-40° C to +65° C
CHV-2R7125R-TW	2.7	1.2	6.3	15	240	0.006	0.22	-40° C to +65° C
CHV-2R7155R-TW	2.7	1.5	8	12	160	0.010	0.47	-40° C to +65° C
CHV-2R7205R-TW	2.7	2	8	16	120	0.010	0.61	-40° C to +65° C
CHV-2R7335R-TW	2.7	3.3	8	20	95	0.012	0.56	-40° C to +65° C
CHV-2R7405R-TWX	2.7	4	8	20	100	0.015	0.74	-40° C to +65° C
CHV-2R7405R-TW	2.7	4	10	20	70	0.015	0.79	-40° C to +65° C
CHV-2R7475R-TW	2.7	4.7	10	20	75	0.015	0.97	-40° C to +65° C
CHV-2R7505R-TWX	2.7	5	8	25	85	0.015	0.68	-40° C to +65° C
CHV-2R7505R-TW	2.7	5	10	20	70	0.015	0.80	-40° C to +65° C
CHV-2R7705R-TW	2.7	7	10	20	70	0.018	0.79	-40° C to +65° C
CHV-2R7705R-TWQ	2.7	7	10	25	60	0.020	0.82	-40° C to +65° C
CHV-2R7805R-TW	2.7	8	12.5	20	60	0.020	0.93	-40° C to +65° C
CHV-2R7106R-TW	2.7	10	10	25	50	0.030	1.43	-40° C to +65° C
CHV-2R7106R-TWQ	2.7	10	10	30	50	0.030	1.43	-40° C to +65° C
CHV-2R7126R-TW	2.7	12	10	30	50	0.030	1.5	-40° C to +65° C
CHV-2R7106R-TWX	2.7	10	12.5	20	50	0.030	1.35	-40° C to +65° C
CHV-2R7126R-TW	2.7	12	12.5	25	50	0.035	1.53	-40° C to +65° C
CHV-2R7156R-TW	2.7	15	12.5	25	50	0.030	1.35	-40° C to +65° C
CHV-2R7156R-TWQ	2.7	15	12.5	30	35	0.050	1.93	-40° C to +65° C
CHV-2R7166R-TW	2.7	16	16	16	40	0.050	1.80	-40° C to +65° C
CHV-2R7186R-TW	2.7	18	12.5	30	40	0.055	1.66	-40° C to +65° C
CHV-2R7206R-TW	2.7	20	12.5	30	35	0.055	1.93	-40° C to +65° C
CHV-2R7226R-TW	2.7	22	12.5	30	34	0.060	1.97	-40° C to +65° C
CHV-2R7226R-TWX	2.7	22	16	20	30	0.075	2.00	-40° C to +65° C
CHV-2R7256R-TW	2.7	25	16	25	27	0.060	2.09	-40° C to +65° C
CHV-2R7306R-TW	2.7	30	16	30	20	0.070	2.53	-40° C to +65° C
CHV-2R7506R-TW	2.7	50	18	40	18	0.075	4.34	-40° C to +65° C
CHV-2R7606R-TW	2.7	60	18	40	15	0.150	4.58	-40° C to +65° C
CHV-2R7107R-TWV	2.7	100	18	60	15	0.260	5.51	-40° C to +65° C
CHV-2R7107R-TW	2.7	100	22	45	8	0.240	6.84	-40° C to +65° C
CHV-2R7127R-TW	2.7	120	22	50	7.5	0.300	7.40	-40° C to +65° C
CHV-2R7127R-TWX	2.7	120	25	45	8	0.250	6.72	-40° C to +65° C
CHV-2R7157R-TW	2.7	150	25	50	7	0.400	8.22	-40° C to +65° C
CHV-2R7187R-TW	2.7	180	25	50	7	0.415	8.08	-40° C to +65° C
CHV-2R7207R-TW	2.7	200	30	50	6	0.600	9.83	-40° C to +65° C
CHV-2R7227R-TW	2.7	220	30	50	6	0.520	10.08	-40° C to +65° C
CHV-2R7257R-TW	2.7	250	30	55	5.5	0.580	10.71	-40° C to +65° C
CHV-2R7307R-TWX	2.7	300	30	50	5.5	0.600	10.52	-40° C to +65° C
CHV-2R7307R-TW	2.7	300	30	55	6	0.600	10.08	-40° C to +65° C
CHV-2R7307R-TW	2.7	300	35	50	5.5	0.60	10.52	-40° C to +65° C
CHV-2R7337R-TW	2.7	330	35	50	5	0.80	11.76	-40° C to +65° C
CHV-2R7357R-TW	2.7	350	35	60	3	1.00	16.17	-40° C to +65° C
CHV-2R7367R-TW	2.7	360	35	60	4	0.95	15.06	-40° C to +65° C
CHV-2R7407R-TW	2.7	400	35	60	3.8	1.00	14.91	-40° C to +65° C
CHV-2R7407R-TWX	2.7	400	35	55	4.5	1.00	12.92	-40° C to +65° C
CHV-2R7457R-TW	2.7	450	35	60	4.0	1.20	14.23	-40° C to +65° C
CHV-2R7507R-TWX	2.7	500	35	60	3	1.00	19.58	-40° C to +65° C
CHV-2R7507R-TW	2.7	500	35	67	2.9	1.30	20.05	-40° C to +65° C
CHV-2R7607R-TW	2.7	600	35	70	3.2	1.60	17.02	-40° C to +65° C

CHV



Feature

- Temperature 85°C/85% Humidity
- Long cycle life,maintenance-free
- Low leakage current,High reliability
- REACH,RoHS Directive Compliant

Application

- Consumer electronics,
- Power Holdup Modules,
- Energy Harvesting,
- UPS/Industrial,Robotic Power,
- High Pulse Current Applications.

CHW



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			D	L				
CHW-2R7224R-TW	2.7	0.22	4	10	1000	0.001	0.09	-40° C to +85° C
CHW-2R7224R-TWX	2.7	0.22	5	10	700	0.002	0.10	-40° C to +85° C
CHW-2R7304R-TW	2.7	0.3	4	10	700	0.002	0.11	-40° C to +85° C
CHW-2R7354R-TW	2.7	0.35	5	10	600	0.002	0.15	-40° C to +85° C
CHW-2R7504R-TWX	2.7	0.5	5	12	600	0.003	0.15	-40° C to +85° C
CHW-2R7504R-TW	2.7	0.5	6.3	12	240	0.006	0.14	-40° C to +85° C
CHW-2R7604R-TW	2.7	0.6	4	22	700	0.003	0.16	-40° C to +85° C
CHW-2R7105R-TWV	2.7	1	4	25	550	0.003	0.18	-40° C to +85° C
CHW-2R7105R-TWX	2.7	1	6.3	12	300	0.006	0.16	-40° C to +85° C
CHW-2R7125R-TW	2.7	1.2	5	22	200	0.006	0.33	-40° C to +85° C
CHW-2R7335R-TWX	2.7	3.3	6.3	22	90	0.010	0.53	-40° C to +85° C
CHW-2R7405R-TWV	2.7	4	6.3	25	90	0.010	0.53	-40° C to +85° C
CHW-2R7105R-TW	2.7	1	8	12	160	0.007	0.47	-40° C to +85° C
CHW-2R7155R-TW	2.7	1.5	8	12	160	0.010	0.43	-40° C to +85° C
CHW-2R7205R-TW	2.7	2	8	16	120	0.010	0.61	-40° C to +85° C
CHW-2R7335R-TW	2.7	3.3	8	20	100	0.012	0.74	-40° C to +85° C
CHW-2R7505R-TWX	2.7	5	8	25	90	0.016	0.87	-40° C to +85° C
CHW-2R7505R-TW	2.7	5	10	20	75	0.016	0.97	-40° C to +85° C
CHW-2R7705R-TW	2.7	7	10	25	60	0.022	1.20	-40° C to +85° C
CHW-2R7106R-TW	2.7	10	10	25	55	0.030	1.25	-40° C to +85° C
CHW-2R7106R-TWQ	2.7	10	10	30	45	0.032	1.51	-40° C to +85° C
CHW-2R7106R-TWX	2.7	10	12.5	20	45	0.032	1.42	-40° C to +85° C
CHW-2R7126R-TW	2.7	12	12.5	25	40	0.040	1.66	-40° C to +85° C
CHW-2R7156R-TW	2.7	15	12.5	30	35	0.055	1.93	-40° C to +85° C
CHW-2R7206R-TW	2.7	20	12.5	30	35	0.055	1.93	-40° C to +85° C
CHW-2R7256R-TW	2.7	25	16	25	25	0.078	2.41	-40° C to +85° C
CHW-2R7306R-TW	2.7	30	16	30	20	0.085	2.92	-40° C to +85° C
CHW-2R7506R-TW	2.7	50	18	40	16	0.120	3.96	-40° C to +85° C
CHW-2R7107R-TWV	2.7	100	18	60	13	0.250	5.30	-40° C to +85° C
CHW-2R7107R-TW	2.7	100	22	50	8	0.240	6.84	-40° C to +85° C

Feature

- Low leakage current, long life
- High power,high energy density
- Small size and low-resistance
- Long cycle life,maintenance-free
- REACH,RoHS Directive Compliant

Application

- Consumer electronics,Industrial and Automation
- Portable Power Tools ,Renewable Energy Storage Systems
- Short Term UPS (Uninterruptible Power Supply).

DRL



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			D	L				
DRL2R7105R-TW	2.7	1	8	12	200	0.006	0.47	-40° C to +65° C
DRL2R7205R-TW	2.7	2	8	12	100	0.010	0.49	-40° C to +65° C
DRL2R7305R-TW	2.7	3	8	20	140	0.012	0.65	-40° C to +65° C
DRL2R7335R-TW	2.7	3.3	8	20	140	0.012	0.74	-40° C to +65° C
DRL2R7505R-TW	2.7	5	10	20	115	0.015	0.97	-40° C to +65° C
DRL2R7705R-TW	2.7	7	10	20	115	0.020	0.97	-40° C to +65° C
DRL2R7106R-TW	2.7	10	10	25	105	0.030	1.15	-40° C to +65° C
DRL2R7106R-TWQ	2.7	10	10	30	70	0.030	1.43	-40° C to +65° C
DRL2R7106R-TWX	2.7	10	12.5	20	65	0.030	1.42	-40° C to +65° C
DRL2R7156R-TW	2.7	15	12.5	25	50	0.050	1.80	-40° C to +65° C
DRL2R7186R-TW	2.7	18	12.5	25	50	0.055	1.66	-40° C to +65° C
DRL2R7206R-TW	2.7	20	12.5	25	40	0.060	2.70	-40° C to +65° C

Feature

- High power,Extremely Lower ESR,high energy density
- Maintenance-free,Long cycle life, Low Leakage Current
- No Explosion Safety,High pulse power capability
- REACH,RoHS Directive Compliant

Application

- Power Holdup Modules,
- Energy Harvesting, UPS/Industrial,
- Robotic Power,
- High Pulse Current Applications Emergency car energy storage.

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			D	L				
CHQ-2R7105R-TW	2.7	1	8	12	140	0.006	0.57	-40° C to +65° C
CHQ-2R7205R-TW	2.7	2	8	16	90	0.013	0.71	-40° C to +65° C
CHQ-2R7335R-TW	2.7	3.3	8	20	60	0.012	0.93	-40° C to +65° C
CHQ-2R7505R-TWX	2.7	5	8	25	55	0.020	1.11	-40° C to +65° C
CHQ-2R7505R-TW	2.7	5	10	20	27	0.015	1.19	-40° C to +65° C
CHQ-2R7705R-TW	2.7	7	10	25	30	0.030	1.70	-40° C to +65° C
CHQ-2R7106R-TWQ	2.7	10	10	30	20	0.030	2.02	-40° C to +65° C
CHQ-2R7106R-TWX	2.7	10	13	20	25	0.035	1.91	-40° C to +65° C
CHQ-2R7256R-TW	2.7	25	16	25	15	0.060	2.41	-40° C to +65° C
CHQ-2R7506R-TW	2.7	50	18	40	9	0.075	3.96	-40° C to +65° C
CHQ-2R7107R-TW	2.7	100	22	45	6.00	0.26	11.81	-40° C to +65° C
CHQ-2R7127R-TW	2.7	120	22	50	6.00	0.30	13.05	-40° C to +65° C
CHQ-2R7187R-TW	2.7	180	25	50	7.00	0.60	15.75	-40° C to +65° C
CHQ-2R7227R-TW	2.7	220	30	50	5.00	0.62	17.92	-40° C to +65° C
CHQ-2R7357R-TW	2.7	350	35	60	2.50	1.00	24.20	-40° C to +65° C
CHQ-2R7407R-TW	2.7	400	35	60	2.30	1.00	25.75	-40° C to +65° C
CHQ-2R7507R-TW	2.7	500	35	65	2.40	1.30	26.90	-40° C to +65° C
CHQ-2R7607R-TW	2.7	600	35	70	2.50	1.50	30.77	-40° C to +65° C
CHQ-2R7307R-TW	2.7	300	35	60	1.60	1.00	24.44	-40° C to +65° C
CHQ-2R7367R-TW	2.7	360	35	65	1.30	1.20	24.64	-40° C to +65° C
CHQ-2R7407R-TW	2.7	400	35	70	1.20	1.30	28.52	-40° C to +65° C
CHQ-2R7507R-TW	2.7	500	35	85	1.10	1.50	33.26	-40° C to +65° C
CHQ-2R7607R-TW	2.7	600	35	85	1.10	1.50	34.09	-40° C to +65° C
CHQ-2R7407R-TWQ	2.7	400	35	66	2.50	1.00	22.20	-40° C to +65° C
CHQ-3R0307R-TW	3.0	300	35	60	1.4	1.00	22.70	-40° C to +65° C
CHQ-3R0367R-TW	3.0	360	35	65	1.3	1.20	24.64	-40° C to +65° C
CHQ-3R0407R-TW	3.0	400	35	70	1.2	1.30	28.52	-40° C to +65° C
CHQ-3R0507R-TW	3.0	500	35	85	1.1	1.50	33.26	-40° C to +65° C
CHQ-3R0607R-TW	3.0	600	35	85	1.1	1.60	33.26	-40° C to +65° C



Feature

- Up to 1,000,000 duty cycles or 10 year DC life*
- High power and energy
- 650F to 3,000F capacitance range
- Threaded terminals or laser-weldable posts
- REACH,RoHS Directive Compliant

Application

- High shock and vibration environments
- Automotive subsystems ,Wind turbine pitch control
- Hybrid vehicles ,Rail
- Heavy industrial equipment
- UPS & telecom systems

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Rated Current (A)	Operating temperature
			D	L				
CNP650 P270	2.7	650	0.40	12	1.8	0.006	65	-40° C to +65° C
CNP1200 P270	2.7	1200	0.25	16	2.5	0.013	100	-40° C to +65° C
CNP1500 P270	2.7	1500	0.25	20	1.8	0.012	100	-40° C to +65° C
CNP2000 P270	2.7	2000	0.18	25	1.8	0.020	100	-40° C to +65° C
CNP3000 P270	2.7	3000	0.14	20	5.2	0.015	100	-40° C to +65° C
CNP3400 P270	2.7	3400	0.14	25	1.8	0.030	100	-40° C to +65° C
CNP3400 P285	2.85	3400	0.14	30	6.24	0.030	100	-40° C to +65° C
CNP650 P300	3.0	650	0.45	20	2.16	0.035	65	-40° C to +65° C
CNP1200 P300	3.0	1200	0.30	25	3.00	0.060	100	-40° C to +65° C
CNP1500 P300	3.0	1500	0.20	40	4.20	0.075	100	-40° C to +65° C
CNP2000 P300	3.0	2000	0.20	45	12.35	0.26	100	-40° C to +65° C
CNP3000 P300	3.0	3000	0.14	50	6.24	0.30	100	-40° C to +65° C
CNP3400 P300	3.0	3400	0.14	50	6.24	0.60	100	-40° C to +65° C



Feature

- High power,high energy density High reliability
- Long cycle life,maintenance-free
- 3.0V High Operating Voltage
- Ultra low ESR for high power density
- REACH,RoHS Directive Compliant

Application

- Consumer electronics,
- Smart meter,
- Back up power,
- Stand alone or augment existing,
- Energy/power source.

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			D	L				
CXP-3R0224R-TWX	3.0	0.22	4	10	1000	0.001	0.09	-40° C to +65° C
CXP-3R0224R-TW	3.0	0.22	5	10	700	0.002	0.10	-40° C to +65° C
CXP-3R0304R-TW	3.0	0.3	4	10	700	0.001	0.10	-40° C to +65° C
CXP-3R0354R-TW	3.0	0.35	5	10	600	0.002	0.12	-40° C to +65° C
CXP-3R0504R-TW	3.0	0.5	5	12	400	0.002	0.15	-40° C to +65° C
CXP-3R0604R-TW	3.0	0.6	4	22	700	0.003	0.16	-40° C to +65° C
CXP-3R0105R-TWV	3.0	1	4	25	550	0.003	0.18	-40° C to +65° C
CXP-3R0105R-TWX	3.0	1	6.3	12	240	0.006	0.29	-40° C to +65° C
CXP-3R0125R-TW	3.0	1.2	5	22	200	0.006	0.33	-40° C to +65° C
CXP-3R0125R-TWX	3.0	1.2	6.3	11	250	0.006	0.20	-40° C to +65° C
CXP-3R0355R-TW	3.0	3.5	6.3	22	90	0.010	0.53	-40° C to +65° C
CXP-3R0455R-TW	3.0	4.5	6.3	25	90	0.010	0.56	-40° C to +65° C
CXP-3R0105R-TW	3.0	1	8	12	180	0.006	0.47	-40° C to +65° C
CXP-3R0155R-TW	3.0	1.5	8	20	98	0.012	0.74	-40° C to +65° C
CXP-3R0205R-TWX	3.0	2	8	12	130	0.006	0.26	-40° C to +65° C
CXP-3R0205R-TW	3.0	2	8	16	100	0.010	0.61	-40° C to +65° C
CXP-3R0335R-TW	3.0	3.3	8	20	98	0.012	0.74	-40° C to +65° C
CXP-3R0405R-TW	3.0	4	10	20	75	0.018	0.90	-40° C to +65° C
CXP-3R0505R-TWX	3.0	5	8	25	90	0.015	0.87	-40° C to +65° C
CXP-3R0505R-TW	3.0	5	10	20	75	0.018	0.97	-40° C to +65° C
CXP-3R0705R-TWX	3.0	7	8	25	80	0.018	0.71	-40° C to +65° C
CXP-3R0705R-TW	3.0	7	10	20	70	0.020	0.79	-40° C to +65° C
CXP-3R0705R-TWQ	3.0	7	10	25	60	0.024	1.20	-40° C to +65° C
CXP-3R0106R-TWX	3.0	10	10	25	55	0.030	1.25	-40° C to +65° C
CXP-3R0106R-TWQ	3.0	10	10	30	45	0.036	1.51	-40° C to +65° C
CXP-3R0106R-TW	3.0	10	12.5	20	45	0.036	1.42	-40° C to +65° C
CXP-3R0126R-TW	3.0	12	12.5	25	40	0.048	1.66	-40° C to +65° C
CXP-3R0156R-TWX	3.0	15	12.5	30	35	0.062	1.93	-40° C to +65° C
CXP-3R0156R-TW	3.0	15	12.5	25	30	0.048	1.92	-40° C to +65° C
CXP-3R0186R-TW	3.0	18	12.5	25	35	0.040	1.59	-40° C to +65° C
CXP-3R0206R-TW	3.0	20	12.5	25	35	0.050	1.66	-40° C to +65° C
CXP-3R0206R-TWQ	3.0	20	12.5	30	33	0.072	1.98	-40° C to +65° C
CXP-3R0226R-TW	3.0	22	12.5	35	34	0.060	1.97	-40° C to +65° C
CXP-3R0256R-TWQ	3.0	25	12.5	35	26	0.082	2.40	-40° C to +65° C
CXP-3R0256R-TW	3.0	25	16	25	25	0.082	2.41	-40° C to +65° C
CXP-3R0306R-TW	3.0	30	16	30	20	0.090	2.92	-40° C to +65° C
CXP-3R0356R-TWX	3.0	35	16	30	20	0.070	3.09	-40° C to +65° C
CXP-3R0356R-TW	3.0	35	16	35	18	0.105	3.30	-40° C to +65° C
CXP-3R0506R-TW	3.0	50	18	40	18	0.075	3.96	-40° C to +65° C
CXP-3R0606R-TW	3.0	60	18	60	15	0.100	2.00	-40° C to +65° C
CXP-3R0107R-TWV	3.0	100	18	60	13	0.260	5.30	-40° C to +65° C
CXP-3R0127R-TWV	3.0	120	18	60	12	0.300	6.72	-40° C to +65° C
CXP-3R0107R-TW	3.0	100	22	45	8.0	0.276	6.84	-40° C to +65° C
CXP-3R0127R-TW	3.0	120	22	50	7.5	0.345	7.40	-40° C to +65° C
CXP-3R0157R-TWX	3.0	150	22	55	7.0	0.460	7.00	-40° C to +65° C
CXP-3R0167R-TW	3.0	160	22	55	7.0	0.460	8.00	-40° C to +65° C
CXP-3R0157R-TW	3.0	150	25	50	7.0	0.460	8.22	-40° C to +65° C
CXP-3R0227R-TW	3.0	220	30	50	6.0	0.598	9.83	-40° C to +65° C
CXP-3R0257R-TW	3.0	250	30	55	5.5	0.667	10.71	-40° C to +65° C
CXP-3R0357R-TW	3.0	350	35	60	3	1.00	13.90	-40° C to +65° C
CXP-3R0367R-TW	3.0	360	35	60	4.0	0.98	14.49	-40° C to +65° C
CXP-3R0387R-TW	3.0	380	35	60	3.8	1.05	14.86	-40° C to +65° C
CXP-3R0407R-TW	3.0	400	35	66	3.5	1.15	16.15	-40° C to +65° C
CXP-3R0437R-TW	3.0	430	35	66	3.2	1.24	16.55	-40° C to +65° C
CXP-3R0487R-TW	3.0	480	35	70	3.1	1.35	17.17	-40° C to +65° C
CXP-3R0507R-TW	3.0	500	35	65	2.9	1.30	18.75	-40° C to +65° C
CXP-3R0607R-TW	3.0	600	35	70	3	1.50	19.95	-40° C to +65° C



Feature

- High power,high energy density
- Long cycle life,maintenance-free
- Lead terminals can be customized
- Low ESR, Low Leakage Current
- REACH,RoHS Directive Compliant

Application

- Consumer electronics
- Ride thru power support
- Back up power
- Stand alone or augment existing
- Energy/power source.

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CHP5R0L104R-TW	5.0	0.1	10	5	12	2000	0.001	0.09	-40° C to +70° C
CHP5R0L474R-TWX	5.0	0.47	13	7	14	400	0.006	0.31	-40° C to +70° C
CHP5R0L474R-TW	5.0	0.47	16	8	14	300	0.006	0.38	-40° C to +70° C
CHP5R0L105R-TW	5.0	1.0	16	8	18	200	0.008	0.45	-40° C to +70° C
CHP5R0L155R-TW	5.0	1.5	16	8	22	190	0.010	0.64	-40° C to +70° C
CHP5R0L255R-TW	5.0	2.5	20	10	22	140	0.020	0.75	-40° C to +70° C
CHP5R0L505R-TWX	5.0	5.0	25	12.5	22	100	0.025	1.10	-40° C to +70° C
CHP5R0L755R-TW	5.0	7.5	25	12.5	32	70	0.065	1.52	-40° C to +70° C
CHP5R5L473R-TW	5.5	0.047	9	4	12	2500	0.001	0.09	-40° C to +70° C
CHP5R5L104R-TW	5.5	0.1	10	5	12	900	0.001	0.09	-40° C to +70° C
CHP5R5L124R-TW	5.5	0.12	9	4	12	2000	0.001	0.09	-40° C to +70° C
CHP5R5L224R-TWX	5.5	0.22	10	5	14	800	0.002	0.12	-40° C to +70° C
CHP5R5L224R-TW	5.5	0.22	13	7	14	400	0.006	0.14	-40° C to +70° C
CHP5R5L474R-TWQ	5.5	0.47	9	4	27	1100	0.003	0.18	-40° C to +70° C
CHP5R5L504R-TWX	5.5	0.5	13	7	14	400	0.006	0.16	-40° C to +70° C
CHP5R5L155R-TWQ	5.5	1.5	13	7	24	190	0.010	0.53	-40° C to +70° C
CHP5R5L205R-TWQ	5.5	2.0	13	7	27	190	0.010	0.56	-40° C to +70° C
CHP5R5L334R-TW	5.5	0.33	16	8	14	300	0.006	0.34	-40° C to +70° C
CHP5R5L474R-TW	5.5	0.47	16	8	14	300	0.006	0.47	-40° C to +70° C
CHP5R5L504R-TW	5.5	0.50	16	8	14	300	0.006	0.50	-40° C to +70° C
CHP5R5L105R-TW	5.5	1.0	16	8	14	360	0.006	0.44	-40° C to +70° C
CHP5R5L105R-TWX	5.5	1.0	16	8	18	240	0.010	0.61	-40° C to +70° C
CHP5R5L105R-TWQ	5.5	1.0	16	8	22	200	0.012	0.74	-40° C to +70° C
CHP5R5L155R-TW	5.5	1.5	16	8	22	200	0.012	0.74	-40° C to +70° C
CHP5R5L155R-TWX	5.5	1.5	16	8	18	260	0.012	0.59	-40° C to +70° C
CHP5R5L205R-TW	5.5	2.0	16	8	22	200	0.015	0.74	-40° C to +70° C
CHP5R5L255R-TW	5.5	2.5	20	10	22	150	0.015	0.97	-40° C to +70° C
CHP5R5L255R-TWX	5.5	2.5	20	10	18	180	0.015	0.80	-40° C to +70° C
CHP5R5L255R-TWQ	5.5	2.5	16	8	27	160	0.017	0.75	-40° C to +70° C
CHP5R5L305R-TW	5.5	3.0	20	10	22	150	0.020	0.97	-40° C to +70° C
CHP5R5L355R-TW	5.5	3.5	20	10	22	150	0.020	0.97	-40° C to +70° C
CHP5R5L355R-TWQ	5.5	3.5	16	8	27	120	0.020	1.20	-40° C to +70° C
CHP5R5L405R-TW	5.5	4.0	20	10	27	150	0.028	1.17	-40° C to +70° C
CHP5R5L405R-TWX	5.5	4.0	25	12.5	22	90	0.030	1.42	-40° C to +70° C
CHP5R5L505R-TW	5.5	5.0	20	10	27	150	0.028	1.17	-40° C to +70° C
CHP5R5L505R-TWX	5.5	5.0	25	12.5	22	90	0.030	1.42	-40° C to +70° C
CHP5R5L505R-TWQ	5.5	5.0	20	10	32	90	0.030	1.51	-40° C to +70° C
CHP5R5L505R-TWV	5.5	5.0	16	8	32	120	0.028	1.16	-40° C to +70° C
CHP5R5L755R-TW	5.5	7.5	25	12.5	28	100	0.070	1.80	-40° C to +70° C
CHP5R5L755R-TWQ	5.5	7.5	25	12.5	32	70	0.052	1.93	-40° C to +70° C
CHP5R5L106R-TW	5.5	10	25	12.5	28	96	0.055	1.95	-40° C to +70° C
CHP5R5L106R-TWQ	5.5	10	25	12.5	32	70	0.055	1.93	-40° C to +70° C
CHP5R5L106R-TWX	5.5	10	25	12.5	37	60	0.056	2.23	-40° C to +70° C
CHP5R5L126R-TW	5.5	12	32	16	27	50	0.068	2.41	-40° C to +70° C
CHP5R5L156R-TW	5.5	15	32	16	32	70	0.095	2.09	-40° C to +70° C
CHP5R5L206R-TW	5.5	20	36	18	42	36	0.088	3.52	-40° C to +70° C
CHP5R5L206R-TWX	5.5	20	36	18	37	43	0.080	3.1	-40° C to +70° C
CHP5R5L256R-TW	5.5	25	36	18	42	40	0.110	4.34	-40° C to +70° C
CHP5R5L306R-TW	5.5	30	36	18	42	35	0.120	4.64	-40° C to +70° C
CHP5R5L416R-TW	5.5	41	36	18	42	45	0.250	3.55	-40° C to +70° C
CHP5R5L506R-TW	5.5	50	36	18	62	30	0.300	6.04	-40° C to +70° C
CHP5R5L606R-TW	5.5	60	36	18	62	25	0.25	7.20	-40° C to +70° C



Feature

- Low leakage current, long life
- High Temperature
- Small size and low-resistance
- Temperature 85°C/85% Humidity
- REACH,RoHS Directive Compliant

Application

- Scanners,Medical equipment
- Main power
- Back up power
- UPS/Industrial
- Wireless Alarms
- Water and gas smart meters.



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CHT-5R5L104R-TW	5.5	0.1	10	5	12	900	0.001	0.09	-40° C to +85° C
CHT-5R5L124R-TW	5.5	0.12	9	4	12	2000	0.001	0.09	-40° C to +85° C
CHT-5R5L224R-TWX	5.5	0.22	10	5	14	800	0.002	0.12	-40° C to +85° C
CHT-5R5L224R-TW	5.5	0.22	13	7	14	400	0.006	0.14	-40° C to +85° C
CHT-5R5L474R-TWQ	5.5	0.47	9	4	27	1100	0.003	0.18	-40° C to +85° C
CHT-5R5L504R-TWX	5.5	0.5	13	7	14	400	0.006	0.16	-40° C to +85° C
CHT-5R5L155R-TWQ	5.5	1.5	13	7	24	190	0.010	0.53	-40° C to +85° C
CHT-5R5L205R-TW	5.5	2.0	13	7	27	190	0.010	0.56	-40° C to +85° C
CHT-5R5L474R-TW	5.5	0.47	16	8	14	320	0.006	0.47	-40° C to +85° C
CHT-5R5L504R-TW	5.5	0.50	16	8	14	320	0.006	0.50	-40° C to +85° C
CHT-5R5L105R-TW	5.5	1.0	16	8	18	240	0.010	0.61	-40° C to +85° C
CHT-5R5L155R-TW	5.5	1.5	16	8	22	200	0.012	0.74	-40° C to +85° C
CHT-5R5L255R-TWX	5.5	2.5	16	8	27	180	0.015	0.87	-40° C to +85° C
CHT-5R5L255R-TW	5.5	2.5	20	10	22	150	0.015	0.97	-40° C to +85° C
CHT-5R5L355R-TWX	5.5	3.5	20	10	27	120	0.020	1.20	-40° C to +85° C
CHT-5R5L355R-TW	5.5	3.5	20	10	22	140	0.022	1.00	-40° C to +85° C
CHT-5R5L505R-TW	5.5	5.0	20	10	27	120	0.030	1.20	-40° C to +85° C
CHT-5R5L505R-TWX	5.5	5.0	25	13	22	90	0.030	1.42	-40° C to +85° C
CHT-5R5L505R-TWQ	5.5	5.0	20	10	32	90	0.030	1.43	-40° C to +85° C
CHT-5R5L755R-TW	5.5	7.5	25	13	27	95	0.060	1.30	-40° C to +85° C
CHT-5R5L805R-TW	5.5	8.0	25	13	27	80	0.040	1.66	-40° C to +85° C
CHT-5R5L106R-TW	5.5	10	25	13	32	70	0.055	1.93	-40° C to +85° C
CHT-5R5L126R-TW	5.5	12.5	32	16	32	50	0.068	2.41	-40° C to +85° C
CHT-5R5L156R-TW	5.5	15	32	16	32	40	0.075	2.92	-40° C to +85° C
CHT-5R5L256R-TW	5.5	25	36	18	42	32	0.105	3.96	-40° C to +85° C
CHT-5R5L306R-TW	5.5	30	36	18	42	30	0.120	4.34	-40° C to +85° C
CHT-5R5L506R-TW	5.5	50	36	18	62	26	0.240	5.30	-40° C to +85° C

Feature

- High power,high energy density
- Long cycle life,maintenance-free
- 6.0V High Operating Voltage
- Lead terminals can be customized
- Low ESR, Low Leakage Current
- REACH,RoHS Directive Compliant

Application

- Camera Flash System
- Energy Harvesting
- GSM/GPRS, Pulse Applications
- UPS/Industrial
- Wireless Alarms, Remote Metering
- Scanners
- Toys and Games




Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CSP-6R0L104R-TW	6.0	0.1	10	5	12	900	0.001	0.10	-40° C to +65° C
CSP-6R0L124R-TW	6.0	0.12	9	4	12	2000	0.001	0.09	-40° C to +65° C
CSP-6R0L224R-TW	6.0	0.22	10	5	14	900	0.002	0.15	-40° C to +65° C
CSP-6R0L224R-TWX	6.0	0.22	13	7	14	400	0.006	0.18	-40° C to +65° C
CSP-6R0L474R-TWQ	6.0	0.47	9	4	27	1100	0.003	0.18	-40° C to +65° C
CSP-6R0L504R-TWX	6.0	0.5	13	7	14	400	0.006	0.16	-40° C to +65° C
CSP-6R0L155R-TWQ	6.0	1.5	13	7	24	190	0.010	0.53	-40° C to +65° C
CSP-6R0L225R-TW	6.0	2.2	13	7	27	190	0.010	0.56	-40° C to +65° C
CSP-6R0L474R-TW	6.0	0.47	16	8	14	320	0.007	0.47	-40° C to +65° C
CSP-6R0L504R-TW	6.0	0.50	16	8	14	350	0.007	0.50	-40° C to +65° C
CSP-6R0L105R-TW	6.0	1.0	16	8	18	240	0.012	0.61	-40° C to +65° C
CSP-6R0L155R-TWX	6.0	1.5	16	8	18	260	0.013	0.59	-40° C to +65° C
CSP-6R0L155R-TW	6.0	1.5	16	8	22	200	0.014	0.74	-40° C to +65° C
CSP-6R0L255R-TWX	6.0	2.5	16	8	27	180	0.018	0.87	-40° C to +65° C
CSP-6R0L255R-TW	6.0	2.5	20	10	22	150	0.018	0.97	-40° C to +65° C
CSP-6R0L305R-TW	6.0	3.0	20	10	22	140	0.020	0.91	-40° C to +65° C
CSP-6R0L355R-TW	6.0	3.5	20	10	22	140	0.020	0.98	-40° C to +65° C
CSP-6R0355R-TWX	6.0	3.5	16	8	27	140	0.028	1.02	-40° C to +65° C
CSP-6R0L405R-TW	6.0	4.0	20	10	27	120	0.036	1.20	-40° C to +65° C
CSP-6R0L405R-TWX	6.0	4.0	25	13	22	120	0.036	1.20	-40° C to +65° C
CSP-6R0L505R-TWX	6.0	5.0	25	13	22	90	0.036	1.42	-40° C to +65° C
CSP-6R0L505R-TW	6.0	5.0	20	10	27	90	0.036	1.42	-40° C to +65° C
CSP-6R0L505R-TWQ	6.0	5.0	20	10	32	120	0.036	1.52	-40° C to +65° C
CSP-6R0L755R-TW	6.0	7.5	25	13	27	80	0.048	1.66	-40° C to +65° C
CSP-6R0L755R-TWQ	6.0	7.5	25	13	32	90	0.084	1.75	-40° C to +65° C
CSP-6R0L755R-TWX	6.0	7.5	25	13	22	80	0.030	1.35	-40° C to +65° C
CSP-6R0L106R-TW	6.0	10	25	13	32	70	0.066	1.93	-40° C to +65° C
CSP-6R0L106R-TWX	6.0	10	25	13	28	60	0.050	1.66	-40° C to +65° C
CSP-6R0L126R-TW	6.0	12	32	16	27	50	0.082	2.41	-40° C to +65° C
CSP-6R0L156R-TW	6.0	15	32	16	32	40	0.090	2.92	-40° C to +65° C
CSP-6R0L256R-TW	6.0	25	37	18	42	32	0.126	3.96	-40° C to +65° C
CSP-6R0L306R-TW	6.0	30	37	18	42	30	0.145	4.07	-40° C to +65° C
CSP-6R0L506R-TW	6.0	50	37	18	62	25	0.260	5.27	-40° C to +65° C
CSP-6R0L606R-TW	6.0	60	37	18	62	24	0.280	5.57	-40° C to +65° C

Feature

- High Pulse Power Capability
- Low Leakage Current, Low ESR
- Large capacitance for high energy density
- High Operating Voltage
- REACH,RoHS Directive Compliant

Application

- Camera Flash Systems
- Energy Harvesting
- GSM/GPRS Pulse Applications ,UPS/Industrial
- Wireless Alarms
- Remote Metering
- Scanners ,Toys and Games.




Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CZP-7R5L334R-TW	7.5	0.33	24	8	14	450	0.006	0.38	-40° C to +65° C
CZP-7R5L604R-TW	7.5	0.6	24	8	18	225	0.009	0.45	-40° C to +65° C
CZP-7R5L105R-TW	7.5	1	24	8	22	180	0.011	0.56	-40° C to +65° C
CZP-7R5L155R-TW	7.5	1.5	32	11	22	300	0.020	0.79	-40° C to +65° C
CZP-7R5L225R-TW	7.5	2.2	32	11	22	250	0.023	0.93	-40° C to +65° C
CZP-7R5L335R-TW	7.5	3.3	32	11	31	200	0.030	1.24	-40° C to +65° C
CZP-7R5L505R-TW	7.5	5	38	13	28	160	0.055	1.80	-40° C to +65° C
CZP-7R5L655R-TW	7.5	6.5	38	13	28	150	0.070	1.95	-40° C to +65° C
CZP-8R1L334R-TW	8.1	0.33	24	8	14	500	0.007	0.24	-40° C to +65° C
CZP-8R1L604R-TW	8.1	0.6	24	8	18	400	0.009	0.41	-40° C to +65° C
CZP-8R1L105R-TW	8.1	1.0	24	8	22	350	0.012	0.50	-40° C to +65° C
CZP-9R0L334R-TW	9.0	0.33	24	8	14	500	0.007	0.26	-40° C to +65° C
CZP-9R0L604R-TW	9.0	0.6	24	8	18	400	0.012	0.38	-40° C to +65° C
CZP-9R0L105R-TW	9.0	1.0	24	8	22	350	0.018	0.53	-40° C to +65° C
CZP-9R0L155R-TW	9.0	1.5	32	11	22	240	0.015	0.77	-40° C to +65° C
CZP-9R0L225R-TW	9.0	2.2	32	11	22	240	0.015	0.77	-40° C to +65° C
CZP-9R0L335R-TW	9.0	3.3	32	11	31	120	0.025	1.38	-40° C to +65° C

Feature

- High power,high energy density
- Low leakage current, long life
- Fully sealed, Moisture Resistant Version
- High Reliability
- REACH,RoHS Directive Compliant

Application

- Consumer electronics
- GSM/GPRS Pulse Applications
- Back up power
- Stand alone or augment existing
- Energy/power source



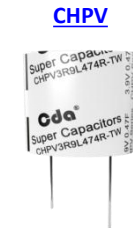
Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CHM-5R5L224R-TW	5.5	0.22	15	8	16	700	0.003	0.16	-40° C to +65° C
CHM-5R5L334R-TW	5.5	0.33	18	9	16	600	0.003	0.21	-40° C to +65° C
CHM-5R5L474R-TW	5.5	0.47	18	9	16	380	0.003	0.26	-40° C to +65° C
CHM-5R5L474R-TWX	5.5	0.47	15	8	16	500	0.003	0.18	-40° C to +65° C
CHM-5R5L105R-TW	5.5	1.0	18	9	20	250	0.007	0.44	-40° C to +65° C
CHM-5R5L155R-TW	5.5	1.5	18	9	24	200	0.012	0.54	-40° C to +65° C
CHM-5R5L255R-TW	5.5	2.5	23	12	25	180	0.020	0.75	-40° C to +65° C
CHM-5R5L355R-TW	5.5	3.5	23	12	25	160	0.023	0.79	-40° C to +65° C
CHM-5R5L505R-TW	5.5	5.0	23	12	25	150	0.028	1.17	-40° C to +65° C
CHM-6R0L224R-TW	6.0	0.22	15	8	16	700	0.003	0.18	-40° C to +65° C
CHM-6R0L334R-TW	6.0	0.33	18	9	16	600	0.003	0.26	-40° C to +65° C
CHM-6R0L474R-TW	6.0	0.47	18	9	16	380	0.007	0.32	-40° C to +65° C
CHM-6R0L474R-TWX	6.0	0.47	15	8	16	500	0.003	0.25	-40° C to +65° C
CHM-6R0L105R-TW	6.0	1.0	18	9	20	250	0.012	0.51	-40° C to +65° C
CHM-6R0L155R-TW	6.0	1.5	18	9	24	200	0.018	0.59	-40° C to +65° C
CHM-6R0L255R-TW	6.0	2.5	23	12	25	180	0.020	0.81	-40° C to +65° C
CHM-7R5L334R-TW	7.5	0.33	26	9	16	600	0.006	0.26	-40° C to +65° C
CHM-7R5L604R-TWX	7.5	0.6	26	9	16	460	0.008	0.26	-40° C to +65° C
CHM-7R5L604R-TW	7.5	0.6	26	9	20	350	0.008	0.44	-40° C to +65° C
CHM-7R5L105R-TW	7.5	1	26	9	24	285	0.012	0.54	-40° C to +65° C
CHM-8R1L334R-TW	8.1	0.33	26	9	16	500	0.003	0.26	-40° C to +65° C
CHM-8R1L604R-TW	8.1	0.6	26	9	20	400	0.070	0.43	-40° C to +65° C
CHM-8R1L105R-TW	8.1	1.0	26	9	24	350	0.012	0.53	-40° C to +65° C
CHM-9R0L334R-TW	9.0	0.33	26	9	16	500	0.007	0.26	-40° C to +65° C
CHM-9R0L604R-TW	9.0	0.6	26	9	20	400	0.012	0.43	-40° C to +65° C
CHM-9R0L105R-TW	9.0	1.0	26	9	24	350	0.018	0.53	-40° C to +65° C
CHM-9R0L155R-TW	9.0	1.5	26	9	24	300	0.014	0.54	-40° C to +65° C

Feature

- High power,high energy density
- Low leakage current, low self discharge
- Ultra-low ESR for high power density
- REACH,RoHS Directive Compliant

Application

- Ride thru power support,
- Back up power,
- Energy/power source,
- Battery assist for peak power,
- Bridging or hold-up power sensors



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CHPV-3R9L474R-TW	3.9	0.47	16	8	14	320	0.004	0.47	-40° C to +65° C
CHPV-3R9L504R-TW	3.9	0.50	16	8	14	320	0.004	0.47	-40° C to +65° C
CHPV-3R9L105R-TW	3.9	1.0	16	8	14	320	0.005	0.47	-40° C to +65° C
CHPV-3R9L105R-TWX	3.9	1.0	16	8	18	240	0.006	0.61	-40° C to +65° C
CHPV-3R9L105R-TWQ	3.9	1.0	16	8	22	200	0.010	0.74	-40° C to +65° C
CHPV-3R9L155R-TW	3.9	1.5	16	8	22	200	0.010	0.74	-40° C to +65° C
CHPV-3R9L255R-TW	3.9	2.5	20	10	22	150	0.012	0.97	-40° C to +65° C
CHPV-3R9L255R-TWX	3.9	2.5	20	10	18	180	0.012	0.80	-40° C to +65° C
CHPV-3R9L255R-TWQ	3.9	2.5	16	8	27	180	0.012	0.87	-40° C to +65° C
CHPV-3R9L305R-TW	3.9	3.0	20	10	22	150	0.015	0.97	-40° C to +65° C
CHPV-3R9L355R-TW	3.9	3.5	20	10	22	150	0.016	0.97	-40° C to +65° C
CHPV-3R9L405R-TW	3.9	4.0	20	10	27	120	0.020	1.20	-40° C to +65° C
CHPV-3R9L405R-TWX	3.9	4.0	25	13	22	90	0.020	1.42	-40° C to +65° C
CHPV-3R9L505R-TW	3.9	5.0	20	10	27	120	0.025	1.20	-40° C to +65° C
CHPV-3R9L505R-TWX	3.9	5.0	25	13	22	90	0.025	1.42	-40° C to +65° C
CHPV-3R9L505R-TWQ	3.9	5.0	20	10	32	90	0.027	1.51	-40° C to +65° C
CHPV-3R9L755R-TW	3.9	7.5	25	13	28	80	0.030	1.69	-40° C to +65° C
CHPV-3R9L755R-TWQ	3.9	7.5	25	13	32	70	0.035	1.97	-40° C to +65° C
CHPV-3R9L106R-TWQ	3.9	10	25	13	32	70	0.040	1.97	-40° C to +65° C
CHPV-3R9L106R-TWX	3.9	10	25	13	37	60	0.045	2.28	-40° C to +65° C

Feature

- High power,high energy density
- Low leakage current, long life
- Plastic, Moisture Resistant Version
- High Reliability
- REACH,RoHS Directive Compliant

Application

- Consumer electronics
- GSM/GPRS Pulse Applications
- Back up power
- Stand alone or augment existing
- Energy/power source



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CHMV-3R9L474R-TW	3.9	0.47	18	9	16	380	0.003	0.26	-40° C to +65° C
CHMV-3R9L105R-TW	3.9	1.0	18	9	20	250	0.007	0.44	-40° C to +65° C
CHMV-3R9L155R-TW	3.9	1.5	18	9	24	200	0.012	0.54	-40° C to +65° C
CHMV-3R9L255R-TW	3.9	2.5	23	12	25	180	0.020	0.75	-40° C to +65° C
CHMV-3R9L305R-TW	3.9	3.0	23	12	25	170	0.023	0.75	-40° C to +65° C
CHMV-3R9L355R-TW	3.9	3.5	23	12	25	160	0.023	0.79	-40° C to +65° C
CHMV-3R9L505R-TW	3.9	5.0	23	12	25	150	0.028	1.17	-40° C to +65° C

Feature

- Low leakage current, long life
- High power,high energy density
- Small size and low-resistance
- Long cycle life,maintenance-free
- REACH,RoHS Directive Compliant

Application

- Consumer electronics,
- Industrial and Automation
- Portable Power Tools ,
- Renewable Energy Storage Systems
- Short Term UPS (Uninterruptible Power Supply).

CPM



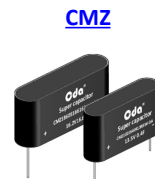
Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CPM-10R8L224R-TW	10.8	0.22	14	18	18	640	0.008	1.09	-40° C to +70° C
CPM-10R8L504R-TW	10.8	0.5	14	18	18	400	0.012	1.70	-40° C to +70° C
CPM-10R8L804R-TW	10.8	0.8	22	18	18	400	0.012	2.98	-40° C to +70° C
CPM-10R8L125R-TW	10.8	1.2	27	18	18	360	0.017	4.03	-40° C to +70° C
CPM-10R8L125R-TWX	10.8	1.2	22	21	21	300	0.017	4.32	-40° C to +70° C
CPM-10R8L175R-TW	10.8	1.7	27	18	18	360	0.017	4.86	-40° C to +70° C
CPM-10R8L175R-TWX	10.8	1.7	22	21	21	300	0.020	5.29	-40° C to +70° C
CPM-10R8L255R-TW	10.8	2.5	32	18	18	200	0.032	7.11	-40° C to +70° C
CPM-10R8L255R-TWX	10.8	2.5	27	21	21	260	0.032	6.84	-40° C to +70° C
CPM-10R8L355R-TW	10.8	3.5	27	27	27	160	0.052	10.66	-40° C to +70° C
CPM-10R8L505R-TW	10.8	5	27	27	27	120	0.062	13.50	-40° C to +70° C
CPM-10R8L106R-TW	10.8	10	47	27	27	80	0.082	23.68	-40° C to +70° C
CPM-10R8L126R-TW	10.8	12	52	27	27	72	0.120	28.72	-40° C to +70° C
CPM-11R0L105R-TW	11	1	22	22	22	140	0.062	14.50	-40° C to +70° C
CPM-12R0L224R-TW	12	0.22	14	18	18	640	0.080	1.21	-40° C to +70° C
CPM-12R0L504R-TW	12	0.5	14	18	18	520	0.080	1.15	-40° C to +70° C
CPM-12R0L804R-TW	12	0.8	22	18	18	400	0.014	3.31	-40° C to +70° C
CPM-12R0L125R-TW	12	1.2	27	18	18	360	0.017	4.48	-40° C to +70° C
CPM-12R0L175R-TW	12	1.7	27	18	18	320	0.020	3.98	-40° C to +70° C
CPM-12R0L255R-TW	12	2.5	27	21	21	220	0.032	8.22	-40° C to +70° C
CPM-12R0L355R-TW	12	3.5	27	27	27	120	0.050	13.43	-40° C to +70° C
CPM-12R0L505R-TW	12	5	27	27	27	140	0.052	13.64	-40° C to +70° C
CPM-12R0L605R-TW	12	6	37	27	27	104	0.090	18.99	-40° C to +70° C

Feature

- Unique slim profile design /Lead Type Terminal
- Passive linear voltage balanced cells
- Fast charge time / Molex Mini-Lock connector
- Maintenance-free backup
- Green solution vs. batteries
- Each module has voltage balancing
- RoHS Compliant

Application

- Automatic meter readers
- Automotive subsystems
- Backup power for safe shutdown requirements
- Battery-powered tools and handheld electronic devices
- Data deduplication/Networking last gasp/RAID storage/SSD
- Wireless transmission/Servers



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CMZ1030S3358R1W-DA	8.1	3.33	11	31	33	135	0.030	8.06	-40° C to +65° C
CMZ1025S3358R1W-DA	8.1	3.33	11	31	28	180	0.033	6.89	-40° C to +65° C
CMZ1325S6658R1W-DA	8.1	6.66	14	40	28	120	0.050	11	-40° C to +65° C
CMZ1625S7358R1W-DA	8.1	7.33	17	49	28	75	0.068	17.42	-40° C to +65° C
CMZ1630S1168R1W-DA	8.1	11.33	17	49	33	60	0.080	23.05	-40° C to +65° C
CMZ1346S1368R1W-DA	8.1	13.33	14	40	49	60	0.080	24.55	-40° C to +65° C
CMZ1840S1668R1W-DA	8.1	16.66	19	55	43	48	0.105	30.68	-40° C to +65° C
CMZ1840S2768R1W-DA	8.1	27.33	19	55	43	54	0.130	40.15	-40° C to +65° C
CMZ1025S25510R8W-DA	10.8	2.5	9	4	12	2500	0.001	0.09	-40° C to +65° C
CMZ1326S45510R8W-DA	10.8	4.5	10	5	12	900	0.001	0.09	-40° C to +65° C
CMZ1625S55510R8W-DA	10.8	5.5	9	4	12	2000	0.001	0.09	-40° C to +65° C
CMZ1630S70510R8W-DA	10.8	7	10	5	14	800	0.002	0.12	-40° C to +65° C
CMZ1635S85510R8W-DA	10.8	8.5	13	7	14	400	0.006	0.14	-40° C to +65° C
CMZ1346S10610R8W-DA	10.8	10	9	4	27	1100	0.003	0.18	-40° C to +65° C
CMZ1835S11610R8W-DA	10.8	11.25	13	7	14	400	0.006	0.16	-40° C to +65° C
CMZ1840S20610R8W-DA	10.8	20.5	13	7	24	190	0.010	0.53	-40° C to +65° C
CMZ1860S25610R8W-DA	10.8	25	13	7	27	190	0.010	0.56	-40° C to +65° C
CMZ1860S30610R8W-DA	10.8	30	16	8	14	300	0.006	0.34	-40° C to +65° C
CMZ1020S40413R5W-DA	13.5	0.4	16	8	14	300	0.006	0.47	-40° C to +65° C
CMZ1020S10513R5W-DA	13.5	1	16	8	14	300	0.006	0.50	-40° C to +65° C
CMZ1030S20513R5W-DA	13.5	2	16	8	14	360	0.006	0.44	-40° C to +65° C
CMZ1320S30513R5W-DA	13.5	3	16	8	18	240	0.010	0.61	-40° C to +65° C
CMZ1325S40513R5W-DA	13.5	4	16	8	22	200	0.012	0.74	-40° C to +65° C
CMZ1335S44513R5W-DA	13.5	4.4	16	8	22	200	0.012	0.74	-40° C to +65° C
CMZ1625S50513R5W-DA	13.5	5	16	8	18	260	0.012	0.59	-40° C to +65° C
CMZ1630S56513R5W-DA	13.5	5.6	16	8	22	200	0.015	0.74	-40° C to +65° C
CMZ1346S68513R5W-DA	13.5	6.8	20	10	22	150	0.015	0.97	-40° C to +65° C
CMZ1346S80513R5W-DA	13.5	8	20	10	18	180	0.015	0.80	-40° C to +65° C
CMZ1835S90513R5W-DA	13.5	9	16	8	27	160	0.017	0.75	-40° C to +65° C
CMZ1840S12613R5W-DA	13.5	12	20	10	22	150	0.020	0.97	-40° C to +65° C
CMZ1840S16613R5W-DA	13.5	16.4	20	10	22	150	0.020	0.97	-40° C to +65° C
CMZ1860S20613R5W-DA	13.5	20	16	8	27	120	0.020	1.20	-40° C to +65° C
CMZ1860S24613R5W-DA	13.5	24	20	10	27	150	0.028	1.17	-40° C to +65° C
CMZ1025S16516R2W-DA	16.2	1.66	11	61	28	360	0.030	7.11	-40° C to +65° C
CMZ1320S25516R2W-DA	16.2	2.5	14	79	23	270	0.040	10.06	-40° C to +65° C
CMZ1330S36516R2W-DA	16.2	3.66	14	79	33	210	0.055	13.17	-40° C to +65° C
CMZ1630S46516R2W-DA	16.2	4.66	17	97	33	120	0.075	21.32	-40° C to +65° C
CMZ1635S56516R2W-DA	16.2	5.66	17	97	38	120	0.080	23.05	-40° C to +65° C
CMZ1835S8516R2W-DA	16.2	5.83	19	109	38	108	0.088	25.96	-40° C to +65° C
CMZ1346S66516R2W-DA	16.2	6.66	14	79	43	120	0.080	24.55	-40° C to +65° C
CMZ1840S75516R2W-DA	16.2	7.5	19	109	43	96	0.105	30.68	-40° C to +65° C
CMZ1840S10616R2W-DA	16.2	10	19	109	43	90	0.150	34.47	-40° C to +65° C
CMZ1840S13616R2W-DA	16.2	13.66	19	109	43	108	0.130	41.02	-40° C to +65° C
CMZ1860S16616R2W-DA	16.2	16.6	19	109	63	78	0.240	45.76	-40° C to +65° C
CMZ1860S20616R2W-DA	16.2	20	19	109	63	78	0.280	48.50	-40° C to +65° C

Feature

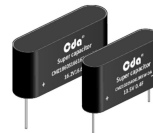
- Unique slim profile design /Lead Type Terminal
- Passive linear voltage balanced cells
- Fast charge time / Molex Mini-Lock connector
- Maintenance-free backup
- Green solution vs. batteries
- Each module has voltage balancing
- RoHS Compliant

Application

- Automatic meter readers
- Automotive subsystems
- Backup power for safe shutdown requirements
- Battery-powered tools and handheld electronic devices
- Data deduplication/Networking last gasp/RAID storage/SSD
- Wireless transmission/Servers

Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
			W	D	L				
CMZ1016S50421R6W-LA	21.6	0.5	22	41	20	720	0.020	4.03	-40° C to +65° C
CMZ1020S60421R6W-LA	21.6	0.62	22	41	23	600	0.015	4.32	-40° C to +65° C
CMZ1030S12521R6W-LA	21.6	1.25	22	41	33	360	0.030	8.06	-40° C to +65° C
CMZ1330S27521R6W-LA	21.6	2.75	28	53	33	280	0.055	13.17	-40° C to +65° C
CMZ1630S35521R6W-LA	21.6	3.5	34	65	33	160	0.075	21.32	-40° C to +65° C
CMZ1630S42521R6W-LA	21.6	4.25	34	65	33	160	0.080	23.05	-40° C to +65° C
CMZ1346S50521R6W-LA	21.6	5	28	53	49	160	0.080	24.55	-40° C to +65° C
CMZ1840S56521R6W-LA	21.6	5.62	38	73	43	128	0.105	30.68	-40° C to +65° C
CMZ1840S75521R6W-LA	21.6	7.5	38	73	43	120	0.150	34.47	-40° C to +65° C
CMZ1840S10621R6W-LA	21.6	10.25	38	73	43	144	0.130	41.02	-40° C to +65° C
CMZ1860S12621R6W-LA	21.6	12.5	38	73	63	104	0.240	45.76	-40° C to +65° C
CMZ1860S15621R6W-LA	21.6	15	38	73	63	104	0.280	48.50	-40° C to +65° C
CMZ1030S12524R0W-XR	24	1.2	45	32	35	450	0.030	8	-40° C to +65° C
CMZ1625S27524R0W-XR	24	2.7	60	50	30	230	0.065	17	-40° C to +65° C
CMZ1630S33524R0W-XR	24	3.3	60	50	35	190	0.075	19	-40° C to +65° C
CMZ1635S38524R0W-XR	24	3.8	60	50	40	180	0.095	24	-40° C to +65° C
CMZ1835Q55524R0W-XR	24	5.5	66	56	40	170	0.110	30	-40° C to +65° C
CMZ1840S55524R0W-XR	24	5.5	66	56	45	150	0.105	31	-40° C to +65° C
CMZ1840S66524R0W-XR	24	6.6	66	56	45	140	0.150	35	-40° C to +65° C
CMZ1840S77524R0W-XR	24	7.7	66	56	45	140	0.125	36	-40° C to +65° C
CMZ1840S91524R0W-XR	24	9.1	66	56	45	140	0.140	38	-40° C to +65° C
CMZ1860S11624R0W-XR	24	11.1	66	56	65	130	0.350	51	-40° C to +65° C
CMZ1860S13624R0W-XR	24	13.3	66	56	65	130	0.280	52	-40° C to +65° C
CMZ1020S50427R0W-LA	27.0	0.5	22	51	23	600	0.020	5.80	-40° C to +65° C
CMZ1030S10527R0W-LA	27.0	1	22	51	33	450	0.030	8.06	-40° C to +65° C
CMZ1330S22527R0W-LA	27.0	2.2	28	66	33	350	0.055	13.17	-40° C to +65° C
CMZ1625S22527R0W-LA	27.0	2.2	34	81	28	250	0.068	17.42	-40° C to +65° C
CMZ1630S28527R0W-LA	27.0	2.8	34	81	33	200	0.075	21.32	-40° C to +65° C
CMZ1630S34527R0W-LA	27.0	3.4	34	81	33	200	0.080	23.05	-40° C to +65° C
CMZ1346S40527R0W-LA	27.0	4.0	28	66	49	200	0.080	24.55	-40° C to +65° C
CMZ1840S45527R0W-LA	27.0	4.5	38	91	43	160	0.105	30.68	-40° C to +65° C
CMZ1840S60527R0W-LA	27.0	6	38	91	43	150	0.150	34.47	-40° C to +65° C
CMZ1840S82527R0W-LA	27.0	8.2	38	91	43	180	0.130	41.02	-40° C to +65° C
CMZ1860S10627R0W-LA	27.0	10	38	91	63	130	0.240	45.76	-40° C to +65° C
CMZ1860S12627R0W-LA	27.0	12	38	91	63	130	0.280	48.50	-40° C to +65° C
CMZ1020S41432R4W-LA	32.4	0.41	22	61	23	900	0.020	5.29	-40° C to +65° C
CMZ1030S83432R4W-LA	32.4	0.83	22	61	33	540	0.030	8.06	-40° C to +65° C
CMZ1330S18532R4W-LA	32.4	1.83	28	79	33	420	0.055	13.17	-40° C to +65° C
CMZ1630S23532R4W-LA	32.4	2.33	34	97	33	240	0.075	21.32	-40° C to +65° C
CMZ1630S28532R4W-LA	32.4	2.83	34	97	33	240	0.080	23.05	-40° C to +65° C
CMZ1346S33532R4W-LA	32.4	3.33	28	79	49	240	0.080	24.55	-40° C to +65° C
CMZ1840S37532R4W-LA	32.4	3.75	38	109	43	192	0.105	30.68	-40° C to +65° C
CMZ1840S50532R4W-LA	32.4	5	38	109	43	180	0.150	34.47	-40° C to +65° C
CMZ1840S68532R4W-LA	32.4	6.83	38	109	43	216	0.130	41.02	-40° C to +65° C
CMZ1860S83532R4W-LA	32.4	8.33	38	109	63	156	0.240	45.76	-40° C to +65° C
CMZ1860S10632R4W-LA	32.4	10	38	109	63	156	0.280	48.50	-40° C to +65° C

CMZ






Feature

- Able to be used at wide temperature from -25°C to 70°C
- Long life Endurance : 1,000 hours at +70°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video
- Audio, Cameras, CCTV
- Printer, Camcorder
- Telephones, Car stereo, E-meter
- Toy, Computer
- Notebook PC
- Rice cooker
- Home network etc.




	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CB / V-TYPE 	CB5R5223VF-ZJ	5.5	0.022	11.5	13.0	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5473VF-ZJ	5.5	0.047	11.5	13.0	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5104VF-ZJ	5.5	0.10	11.5	13.0	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5224VF-ZJ	5.5	0.22	11.5	13.0	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5334VF-ZJ	5.5	0.33	11.5	13.0	5.0	50	0.003	0.3	-25° C to +70° C
H-TYPE 	CB5R5474VF-ZJ	5.5	0.47	11.5	13.0	5.0	50	0.003	0.3	-25° C to +70° C
	CB5R5223HF-ZJP	5.5	0.022	11.5	5.5	10.0	75	0.003	0.3	-25° C to +70° C
	CB5R5473HF-ZJP	5.5	0.047	11.5	5.5	10.0	75	0.003	0.3	-25° C to +70° C
	CB5R5104HF-ZJP	5.5	0.10	11.5	5.5	10.0	75	0.003	0.3	-25° C to +70° C
	CB5R5224HF-ZJP	5.5	0.22	11.5	5.5	10.0	75	0.003	0.3	-25° C to +70° C
	CB5R5334HF-ZJP	5.5	0.33	11.5	5.5	10.0	50	0.003	0.3	-25° C to +70° C
	CB5R5474HF-ZJP	5.5	0.47	11.5	5.5	10.0	50	0.003	0.3	-25° C to +70° C
	CB5R5224HF-ZJ	5.5	0.022	11.5	5.5	12.0	75	0.003	0.3	-25° C to +70° C
	CB5R5473HF-ZJ	5.5	0.047	11.5	5.5	12.0	75	0.003	0.3	-25° C to +70° C
	CB5R5104HF-ZJ	5.5	0.10	11.5	5.5	12.0	75	0.003	0.3	-25° C to +70° C
	CB5R5224HF-ZJ	5.5	0.22	11.5	5.5	12.0	75	0.003	0.3	-25° C to +70° C
	CB5R5334HF-ZJ	5.5	0.33	11.5	5.5	12.0	50	0.003	0.3	-25° C to +70° C
C-TYPE 	CB5R5474HF-ZJ	5.5	0.47	11.5	5.5	12.0	50	0.003	0.3	-25° C to +70° C
	CB5R5223CF-ZJ	5.5	0.022	13.5	7.5	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5473CF-ZJ	5.5	0.047	13.5	7.5	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5104CF-ZJ	5.5	0.10	13.5	7.5	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5224CF-ZJ	5.5	0.22	13.5	7.5	5.0	75	0.003	0.3	-25° C to +70° C
	CB5R5334CF-ZJ	5.5	0.33	13.5	7.5	5.0	50	0.003	0.3	-25° C to +70° C
CB5R5474CF-ZJ	5.5	0.47	13.5	7.5	5.0	50	0.003	0.3	-25° C to +70° C	

Feature

- Able to be used at wide temperature from -25°C to 70°C
- Long life Endurance : 1,000 hours at +70°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video
- Audio, Cameras, CCTV
- Printer, Camcorder
- Telephones, Car stereo, E-meter
- Toy, Computer
- Notebook PC
- Rice cooker
- Home network etc.




	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CBN / V-TYPE 	CBN5R5224VF-ZG	5.5	0.22	11.5	13.0	5.0	25	0.003	0.3	-25°C to +70°C
	CBN5R5334VF-ZG	5.5	0.33	11.5	13.0	5.0	25	0.003	0.3	-25°C to +70°C
	CBN5R5474VF-ZG	5.5	0.47	11.5	13.0	5.0	25	0.003	0.3	-25°C to +70°C
H-TYPE 	CBN5R5224HF-ZG	5.5	0.22	11.5	5.5	10.0	25	0.003	0.3	-25°C to +70°C
	CBN5R5334HF-ZG	5.5	0.33	11.5	5.5	10.0	25	0.003	0.3	-25°C to +70°C
	CBN5R5474HF-ZG	5.5	0.47	11.5	5.5	10.0	25	0.003	0.3	-25°C to +70°C
C-TYPE 	CBN5R5224CF-ZG	5.5	0.22	13.5	7.5	5.0	25	0.003	0.3	-25°C to +70°C
	CBN5R5334CF-ZG	5.5	0.33	13.5	7.5	5.0	25	0.003	0.3	-25°C to +70°C
	CBN5R5474CF-ZG	5.5	0.47	13.5	7.5	5.0	25	0.003	0.3	-25°C to +70°C

Feature

- Able to be used at wide temperature from -25°C to 85°C
- Long life Endurance : 2,000 hours at +85°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video
- Audio, Cameras, CCTV
- Printer, Camcorder
- Telephones, Car stereo, E-meter
- Toy, Computer
- Notebook PC
- Rice cooker
- Home network etc.



	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CBH / V-TYPE 	CBH3R6224VF-ZJ	3.6	0.22	11.5	13.0	5.0	75	0.002	0.3	-25°C to +85°C
	CBH3R6334VF-ZJ	3.6	0.33	11.5	13.0	5.0	50	0.002	0.3	-25°C to +85°C
	CBH3R6474VF-ZJ	3.6	0.47	11.5	13.0	5.0	50	0.002	0.3	-25°C to +85°C
H-TYPE 	CBH3R6224HF-ZJ	3.6	0.22	11.5	5.5	10.0	75	0.002	0.3	-25°C to +85°C
	CBH3R6334HF-ZJ	3.6	0.33	11.5	5.5	10.0	50	0.002	0.3	-25°C to +85°C
	CBH3R6474HF-ZJ	3.6	0.47	11.5	5.5	10.0	50	0.002	0.3	-25°C to +85°C
C-TYPE 	CBH3R6224CF-ZJ	3.6	0.22	13.5	7.5	5.0	75	0.002	0.3	-25°C to +85°C
	CBH3R6334CF-ZJ	3.6	0.33	13.5	7.5	5.0	50	0.002	0.3	-25°C to +85°C
	CBH3R6474CF-ZJ	3.6	0.47	13.5	7.5	5.0	50	0.002	0.3	-25°C to +85°C

Feature

- Able to be used at wide temperature from -25°C to 85°C
- Long life Endurance : 1,000 hours at +85°C
- REACH,RoHS Directive Compliant


Application

- Memory back-up for Video
- Audio, Cameras, CCTV
- Printer, Camcorder
- Telephones, Car stereo, E-meter
- Toy, Computer
- Notebook PC
- Rice cooker
- Home network etc.

	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CBW / V-TYPE 	CBW5R5104VF-ZJ	5.5	0.10	11.5	13.0	7.5	120	0.002	0.3	-25°C to +85°C
	CBW5R5224VF-ZJ	5.5	0.22	11.5	13.0	7.5	75	0.002	0.3	-25°C to +85°C
	CBW5R5334VF-ZJ	5.5	0.33	11.5	13.0	7.5	75	0.002	0.3	-25°C to +85°C
C-TYPE 	CBW5R5104CF-ZJ	5.5	0.10	13.5	9.5	5.0	120	0.002	0.3	-25°C to +85°C
	CBW5R5224CF-ZJ	5.5	0.22	13.5	9.5	5.0	75	0.002	0.3	-25°C to +85°C
	CBW5R5334CF-ZJ	5.5	0.33	13.5	9.5	5.0	75	0.002	0.3	-25°C to +85°C

Feature

- Able to be used at wide temperature from -40°C to 85°C
- Long life Endurance : 1,000 hours at +85°C
- REACH,RoHS Directive Compliant



	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CBL / C-TYPE 	CBL5R5473CF-ZJ	5.5	0.047	13.5	9.5	5.0	40	0.002	0.3	-40°C to +85°C
	CBL5R5104CF-ZJ	5.5	0.10	13.5	9.5	5.0	40	0.002	0.3	-40°C to +85°C
	CBL5R5224CF-ZJ	5.5	0.22	13.5	9.5	5.0	40	0.002	0.3	-40°C to +85°C
	CBL5R5334CF-ZJ	5.5	0.33	13.5	9.5	5.0	40	0.002	0.3	-40°C to +85°C

Feature

- Able to be used at wide temperature from -25°C to 70°C
- Long life Endurance : 1,000 hours at +70°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video
- Audio, Cameras, CCTV
- Printer, Camcorder
- Telephones, Car stereo, E-meter
- Toy, Computer
- Notebook PC
- Rice cooker
- Home network etc.






	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CBS / V-TYPE 	CBS5R5224VF-ZJ	5.5	0.22	10.0	11.0	5.0	75	0.002	0.3	-25°C to +70°C
	CBS5R5334VF-ZJ	5.5	0.33	10.0	11.0	5.0	50	0.002	0.3	-25°C to +70°C
H-TYPE 	CBS5R5224HF-ZJ	5.5	0.22	10	4.5	10.0	75	0.002	0.3	-25°C to +70°C
	CBS5R5334HF-ZJ	5.5	0.33	10	4.5	10.0	50	0.002	0.3	-25°C to +70°C

Feature

- Able to be used at wide temperature from -25°C to 70°C
- Long life Endurance : 1,000 hours at +70°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video,
- Audio, Cameras, CCTV,
- Printer, Camcorder,
- Telephones, Car stereo, E-meter,
- Toy, Computer,
- Notebook PC,
- Rice cooker,
- Home network etc.




	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CE / V-TYPE 	CE5R5474VF-ZJ	5.5	0.47	19.0	20.0	5.0	30	0.02	1.0	-25°C to +70°C
	CE5R5105VF-ZJ	5.5	1.0	19.0	20.0	5.0	30	0.02	1.0	-25°C to +70°C
	CE5R5155VF-ZJ	5.5	1.5	19.0	20.0	5.0	30	0.02	1.0	-25°C to +70°C
H-TYPE 	CE5R5474HF-ZJ	5.5	0.47	19.0	6.0	20.0	30	0.02	1.0	-25°C to +70°C
	CE5R5105HF-ZJ	5.5	1.0	19.0	6.0	20.0	30	0.02	1.0	-25°C to +70°C
	CE5R5155HF-ZJ	5.5	1.5	19.0	6.0	20.0	30	0.02	1.0	-25°C to +70°C
C-TYPE 	CE5R5474CF-ZJ	5.5	0.47	21.5	8.0	5.0	30	0.02	1.0	-25°C to +70°C
	CE5R5105CF-ZJ	5.5	1.0	21.5	8.0	5.0	30	0.02	1.0	-25°C to +70°C
	CE5R5155CF-ZJ	5.5	1.5	21.5	8.0	5.0	30	0.02	1.0	-25°C to +70°C
V-TYPE(4-5F) 	CE5R5405VF-ZJ	5.5	4.0	25.0	26.0	7.0	15	0.03	2.0	-25°C to +70°C
	CE5R5505VF-ZJ	5.5	5.0	25.0	26.0	7.0	15	0.03	2.0	-25°C to +70°C
H-TYPE(4-5F) 	CE5R5405HF-ZJ	5.5	4.0	25.0	7.0	26.0	15	0.03	2.0	-25°C to +70°C
	CE5R5505HF-ZJ	5.5	5.0	25.0	7.0	26.0	15	0.03	2.0	-25°C to +70°C

Feature

- Able to be used at wide temperature from -25°C to 70°C
- Long life Endurance : 1,000 hours at +70°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video,
- Audio, Cameras, CCTV,
- Printer, Camcorder,
- Telephones, Car stereo, E-meter,
- Toy, Computer,
- Notebook PC,
- Rice cooker,
- Home network etc.




	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CEN / V-TYPE 	CEN5R5474VF-ZG	5.5	0.47	19.0	20.0	5.0	25	0.02	1.0	-25°C to +70°C
	CEN5R5684VF-ZG	5.5	0.68	19.0	20.0	5.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5105VF-ZG	5.5	1.0	19.0	20.0	5.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5155VF-ZG	5.5	1.5	19.0	20.0	5.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5205VF-ZG	5.5	2.0	19.0	20.0	5.0	20	0.02	1.0	-25°C to +70°C
H-TYPE 	CEN5R5474HF-ZG	5.5	0.47	19.0	6.0	20.0	25	0.02	1.0	-25°C to +70°C
	CEN5R5684HF-ZG	5.5	0.68	19.0	6.0	20.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5105HF-ZG	5.5	1.0	19.0	6.0	20.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5155HF-ZG	5.5	1.5	19.0	6.0	20.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5205HF-ZG	5.5	2.0	19.0	6.5	20.0	20	0.02	1.0	-25°C to +70°C
C-TYPE 	CEN5R5474CF-ZG	5.5	0.47	21.5	8.0	5.0	25	0.02	1.0	-25°C to +70°C
	CEN5R5684CF-ZG	5.5	0.68	21.5	8.0	5.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5105CF-ZG	5.5	1.0	21.5	8.0	5.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5155CF-ZG	5.5	1.5	21.5	8.0	5.0	20	0.02	1.0	-25°C to +70°C
	CEN5R5205CF-ZG	5.5	2.0	21.5	8.5	5.0	20	0.02	1.0	-25°C to +70°C

Feature

- Able to be used at wide temperature from -25°C to 85°C
- Long life Endurance : 2,000 hours at +85°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video
- Audio, Cameras, CCTV
- Printer, Camcorder
- Telephones, Car stereo, E-meter
- Toy, Computer
- Notebook PC
- Rice cooker
- Home network etc.


	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CH / V-TYPE 	CH3R6474VF-ZJ	3.6	0.47	19.0	20.0	5.0	25	0.01	1.0	-25°C to +85°C
	CH3R6105VF-ZJ	3.6	1.0	19.0	20.0	5.0	25	0.01	1.0	-25°C to +85°C
	CH3R6155VF-ZJ	3.6	1.5	19.0	20.0	5.0	25	0.01	1.0	-25°C to +85°C
H-TYPE 	CH3R6474HF-ZJ	3.6	0.47	19.0	6.0	20.0	25	0.01	1.0	-25°C to +85°C
	CH3R6105HF-ZJ	3.6	1.0	19.0	6.0	20.0	25	0.01	1.0	-25°C to +85°C
	CH3R6155HF-ZJ	3.6	1.5	19.0	6.0	20.0	25	0.01	1.0	-25°C to +85°C
C-TYPE 	CH3R6474CF-ZJ	3.6	0.47	21.5	8.0	5.0	25	0.01	1.0	-25°C to +85°C
	CH3R6105CF-ZJ	3.6	1.0	21.5	8.0	5.0	25	0.01	1.0	-25°C to +85°C
	CH3R6155CF-ZJ	3.6	1.5	21.5	8.0	5.0	25	0.01	1.0	-25°C to +85°C

Feature

- Able to be used at wide temperature from -25°C to 70°C
- Long life Endurance : 1,000 hours at +70°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video, Audio, Cameras, CCTV, Printer, Camcorder, Telephones, Car stereo, E-meter, Toy, Computer, Notebook PC, Rice cooker, Home network etc.


	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CK / C-TYPE 	CK6R3104CF-ZJ	6.3	0.1	13.5	9.5	5.0	75	0.005	1.0	-25°C to +70°C
	CK6R3334CF-ZJ	6.3	0.33	13.5	9.5	5.0	75	0.005	1.0	-25°C to +70°C
	CK6R3684CF-ZJ	6.3	0.68	21.5	10.5	5.0	50	0.005	1.0	-25°C to +70°C
	CK6R3105CF-ZJ	6.3	1.0	21.5	10.5	5.0	30	0.005	1.0	-25°C to +70°C

Feature

- Able to be used at wide temperature from -25°C to 85°C
- Long life Endurance : 1,000 hours at +85°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video, Audio, Cameras, CCTV, Printer, Camcorder, Telephones, Car stereo, E-meter, Toy, Computer, Notebook PC, Rice cooker, Home network etc.


	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CW / C-TYPE 	CW5R5474CF-ZJ	5.5	0.47	21.5	10.5	5.0	50	0.002	1.0	-25°C to +85°C
	CW5R5684CF-ZJ	5.5	0.68	21.5	10.5	5.0	50	0.002	1.0	-25°C to +85°C
	CW5R5105CF-ZJ	5.5	1.0	21.5	10.5	5.0	30	0.002	1.0	-25°C to +85°C

Feature

- Able to be used at wide temperature from -40°C to 85°C
- Long life Endurance : 1,000 hours at +85°C
- REACH,RoHS Directive Compliant

Application

- Memory back-up for Video, Audio, Cameras, CCTV, Printer, Camcorder, Telephones, Car stereo, E-meter, Toy, Computer, Notebook PC, Rice cooker, Home network etc.

	Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)			Max.ESR ESRAC (1kHz/Ω)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(mA)	Operating temperature
				ΦD	H	P				
CWH / C-TYPE 	CWH5R5474CF-ZJ	5.5	0.47	21.5	10.5	5.0	20	0.002	1.0	-40°C to +85°C
	CWH5R5684CF-ZJ	5.5	0.68	21.5	10.5	5.0	20	0.002	1.0	-40°C to +85°C
	CWH5R5105CF-ZJ	5.5	1.0	21.5	10.5	5.0	20	0.002	1.0	-40°C to +85°C

Feature

- Low Self Discharge/Up to 8 times energy density compared to standard Super Capacitors
- High Capacitance, Power type
- 3.8V High Operating Voltage
- No Explosion Safety
- REACH,RoHS Directive Compliant

Application

- Continuous power support
- Back up power
- Stand alone or augment existing
- Medical backup power/alarm
- Water and gas smart meters.

LIC



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
LIC0613Q3R8106	3.8	10	6.3	13	1500	0.001	0.05	-20° C to +65° C
LIC0813Q3R8106	3.8	10	8	13	600	0.001	0.05	-20° C to +65° C
LIC0813Q3R8206	3.8	20	8	13	600	0.001	0.10	-20° C to +65° C
LIC1013Q3R8256	3.8	25	10	13	400	0.001	0.15	-20° C to +65° C
LIC0820Q3R8256	3.8	25	8	20	300	0.002	0.20	-20° C to +65° C
LIC1013Q3R8306	3.8	30	10	13	300	0.001	0.15	-20° C to +65° C
LIC0825Q3R8306	3.8	30	8	25	200	0.002	0.3	-20° C to +65° C
LIC0820Q3R8406	3.8	40	8	20	200	0.002	0.22	-20° C to +65° C
LIC0825Q3R8506	3.8	50	8	25	180	0.002	0.2	-20° C to +65° C
LIC1313Q3R8706	3.8	70	13	13	200	0.002	0.30	-20° C to +65° C
LIC1020Q3R8806	3.8	80	10	20	120	0.002	0.35	-20° C to +65° C
LIC0825Q3R8906	3.8	90	8	25	300	0.002	0.30	-20° C to +65° C
LIC0825Q3R8107	3.8	100	8	25	350	0.003	0.60	-20° C to +65° C
LIC1030Q3R8107	3.8	100	10	30	110	0.003	0.60	-20° C to +65° C
LIC1030Q3R8127	3.8	120	10	30	100	0.003	0.60	-20° C to +65° C
LIC1320Q3R8127	3.8	120	13	20	220	0.003	0.60	-20° C to +65° C
LIC1335Q3R8257	3.8	250	13	35	150	0.005	1.10	-20° C to +65° C
LIC1620Q3R8257	3.8	250	16	20	70	0.005	1.10	-20° C to +65° C
LIC1620Q3R8277	3.8	270	16	20	70	0.013	2.0	-20° C to +65° C
LIC1640Q3R8507	3.8	500	16	40	80	0.015	2.25	-20° C to +65° C
LIC1840Q3R8507	3.8	500	18	40	80	0.015	2.25	-20° C to +65° C
LIC1840Q3R8757	3.8	750	18	40	60	0.023	3.00	-20° C to +65° C

Feature

- Low Self Discharge/Up to 10 times energy density compared to standard Super Capacitors
- High Capacitance,Energy Storage
- 4.0V High Operating Voltage
- No Explosion Safety
- REACH,RoHS Directive Compliant

Application

- Continuous power support
- Back up power
- Stand alone or augment existing
- Medical backup power/alarm
- Water and gas smart meters
- Electronic cigarette.

LIB



Part Number	Working Voltage (V DC)	Rated Cap. (F)	Dimensions (mm)		Max.ESR ESRAC (1kHz/mΩ)	Maximum Leakage (72hrs/mA)	Maximum Endurance Current(A)	Operating temperature
LIB1030Q4R0207	4.0	200	10	30	180	0.003	0.4	-20° C to +65° C
LIB1320Q4R0227	4.0	220	13	20	200	0.003	1.0	-20° C to +65° C
LIB1330Q4R0357	4.0	350	13	30	100	0.004	1.5	-20° C to +65° C
LIB1340Q4R0507	4.0	500	13	40	130	0.005	4.0	-20° C to +65° C
LIB1620Q4R0407	4.0	400	16	20	200	0.015	2.0	-20° C to +65° C
LIB1840Q4R0118	4.0	1100	18	40	65	0.023	6.0	-20° C to +65° C

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