

DC

Coin Type Radial Leaded Super Capacitors



APPLICATIONS

- Power meters
- Water meters
- Digital cameras
- UPS systems
- Digital books
- Battery Backup

FEATURES

- High Capacitance
- Long Life
- Multiple lead style
- Very fast charge/discharge cycling
- Circuit board mountable
- High power density
- RoHS compliant
- Compact size
- IEC 62391 compliant

SPECIFICATIONS

Operating Temperature Range		-25°C to +70°C			
Storage Temperature		-40°C to +85°C			
Capacitance Tolerance		+80%/-20% @ 20°C (Z tolerance code)			
Surge voltage	WVDC	2.7	5.5		
	SVDC	3.0	6.0		
Maximum Current		See standard part listing		1 second discharge to ½ WVDC	
Life time (25°C)		500 hours at 70°C and rated voltage			
		Capacitance change		≤30% of initially measured values	
		ESR		≤400% of initially specified values	
Humidity resistance		240 hours at 40°C and 90~95% relative humidity			
		Capacitance change		≤30% of initially measured values	
		ESR		≤400% of initially measured values	
		Leakage Current		≤200% of initially measured values	
Soldering		Only solder using hand soldering or wave soldering. 230°C Maximum soldering temperature for 5 seconds. Capacitors cannot be used in reflow or infrared soldering processes.			
Temperature characteristic		Capacitance change		≤30% of initially measured values at 70°C	
		ESR		≤100% of initially specified values at 70°C	
		Capacitance change		≤50% of initially measured values at -25°C	
		ESR		≤400% of initially specified values at -25°C	

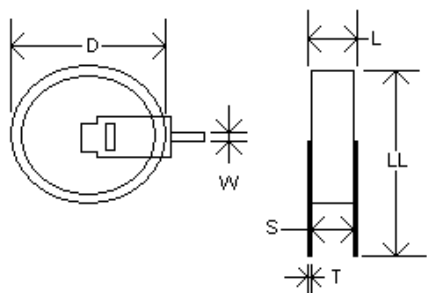
DC

Coin type Radial
leaded Super
Capacitors

Standard Part Listing

Lead style V

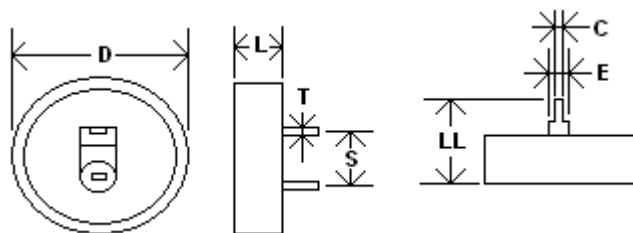
Cap (F)	VDC	IC PART NUMBER	Max current (A)	ESR AC (Ω), 1kHz	ESR DC (Ω)	Max stored energy (W-s)	Specific Energy Gravimetric Density (Wh/kg)	Specific Energy Gravimetric Density (Wh/l)	Weight (grams)	Volume (mL)	Dims DxL (mm)	Lead spacing S (mm)
0.1	5.5	104DCV5R5ZBD	0.275	75	110	1.5125	0.8403	0.8989	0.5	0.4674	11.5x4.5	5
0.22	5.5	224DCV5R5ZBD	0.605	75	110	3.3275	1.0270	1.9775	0.9	0.4674	11.5x4.5	5
0.22	5.5	224DCV5R5Z	0.605	85	125	3.3275	1.0270	2.7748	0.9	0.3331	9.6x4.2	4.6
0.33	5.5	334DCV5R5ZBD	0.9075	75	110	4.9913	1.2604	2.9663	1.1	0.4674	11.5x4.5	5
0.33	5.5	334DCV5R5Z	0.9075	85	125	4.9913	1.2604	3.3297	1.1	0.4164	9.7x5.5	5.9
0.47	5.5	474DCV5R5ZLD	1.2925	50	75	7.1088	1.5190	1.5477	1.3	1.2759	19x4.5	5
0.47	5.5	474DCV5R5Z	1.2925	65	100	7.1088	1.5190	3.1812	1.3	0.6207	12.7x4.6	4.9
0.68	5.5	684DCV5R5ZLD	1.87	30	45	10.285	0.9523	2.2392	3	1.2759	19x4.5	5
1	5.5	105DCV5R5ZLD	2.75	25	40	15.125	1.3129	3.2929	3.2	1.2759	19x4.5	5
1.5	5.5	155DCV5R5ZLD	4.125	25	40	22.6875	1.5955	4.9394	3.95	1.2759	19x4.5	5
1.5	5.5	155DCV5R5Z	4.125	20	30	22.6875	1.5955	4.275	3.95	1.4742	20.2x4.6	4.9
4	5.5	405DCV5R5Z	11	16	25	60.5	2.4008	5.5671	7	3.0187	24.7x6.3	6.7
8	2.7	805DCV2R7Z	4	4	6	29.16	2.3143	0.8855	3.5	5.703	24.7X3	24.7



D+0.5	9.6	9.7	11.5	12.7	19	20.2	24.7
L+0.5	4.2	5.5	4.5	4.5	4.5	4.6	6.3
S+0.5	4.9	5.9	5	4.9	5	4.9	6.7
LL+0.5	14.8	14.1	16	17.5	23.5	23.9	28.3
W+0.1	0.8	0.8	0.8	0.8	1.0	1.0	1.0
T+0.05	0.2	1.2	0.2	0.2	0.2	0.2	0.2

Lead style C

Cap (F)	VDC	IC PART NUMBER	Max current (A)	ESR AC (Ω), 1kHz	ESR DC (Ω)	Max stored energy (W-s)	Specific Energy Gravimetric Density (Wh/kg)	Specific Energy Gravimetric Density (Wh/l)	Weight (grams)	Volume (mL)	Dims DxL (mm)	Lead spacing S (mm)
0.1	5.5	104DCC5R5ZBH	0.275	75	110	1.5125	.1556	.4193	2.7	1.002	13.5x7	5
0.22	5.5	224DCC5R5ZBH	0.605	75	110	3.3275	.3187	.9225	2.9	1.002	13.5x7	5
0.33	5.5	334DCC5R5ZBH	0.9075	75	110	4.9913	.4472	1.3837	3.1	1.002	13.5x7	5
0.47	5.5	474DCC5R5ZMH	1.2925	50	75	7.1088	.2468	.8547	8	2.3105	20.5x7	5
0.68	5.5	684DCC5R5ZMH	1.87	30	45	10.285	.3484	1.2365	8.2	2.3105	20.5x7	5
1	5.5	105DCC5R5ZMH	2.75	25	40	15.125	.4943	1.6972	8.5	2.4755	20.5x7.5	5
1.5	5.5	155DCC5R5ZMH	4.125	25	40	22.6875	.7002	2.7276	9	2.3105	20.5x7	5



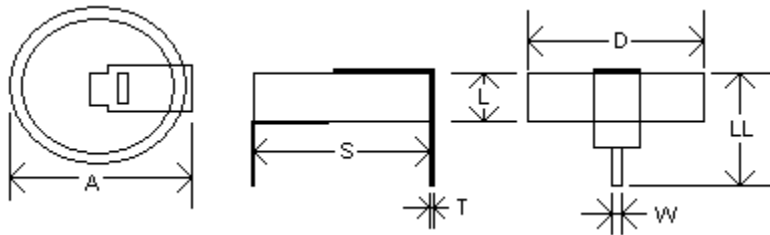
D+0.5	13.5	20.5	20.5
L+0.5	7	7	7.5
S+0.5	5	5	5
T+0.05	0.5	0.5	0.5
C+0.05	0.8	0.8	0.8
E+0.05	1.2	2.0	2.0
LL+0.5	13.5	12.5	12.5



DC	Coin type Radial leaded Super Capacitors
Standard Part Listing	

Lead style H

Cap (F)	VDC	IC PART NUMBER	Max current (A)	ESR AC (Ω), 1kHz	ESR DC (Ω)	Max stored energy (W-s)	Specific Energy Gravimetric Density (Wh/kg)	Specific Energy Gravimetric Density (Wh/l)	Weight (grams)	Volume (mL)	Dims DxL (mm)	Lead spacing S (mm)
0.1	5.5	104DCH5R5ZBD	0.275	75	110	1.5125	0.8403	0.8989	0.5	0.4674	11.5x4.5	10
0.22	5.5	224DCH5R5ZBD	0.605	75	110	3.3275	1.0270	1.9775	0.9	0.4674	11.5x4.5	10
0.22	5.5	224DCH5R5Z	0.605	85	125	3.3275	1.0270	3.0404	0.9	0.3040	9.6x4.2	9.9
0.33	5.5	334DCH5R5ZBD	0.9075	75	110	4.9913	1.2604	2.9663	1.1	0.4674	11.5x4.5	10
0.33	5.5	334DCH5R5Z	0.9075	85	125	4.9913	1.2604	3.842	1.1	0.3609	9.7x5.3	9.8
0.47	5.5	474DCH5R5ZLD	1.2925	50	75	7.1088	1.5190	1.5477	1.3	1.2759	19x4.5	20
0.47	5.5	474DCH5R5Z	1.2925	65	100	7.1088	1.5190	3.802	1.3	0.5194	12.7x4.1	13.1
0.68	5.5	684DCH5R5ZLD	1.87	30	45	10.285	0.9523	2.2392	3	1.2759	19x4.5	20
1	5.5	105DCH5R5ZLD	2.75	25	40	15.125	1.3129	3.2929	3.2	1.2759	19x4.5	20
1.5	5.5	155DCH5R5ZLD	4.125	25	40	22.6875	1.5955	4.9394	3.95	1.2759	19x4.5	20
1.5	5.5	155DCH5R5Z	4.125	20	30	22.6875	1.5955	4.0132	3.95	1.5703	20.2x4.9	20.5
4	5.5	405DCH5R5Z	11	16	25	60.5	2.4008	5.5671	7	3.0187	24.7x6.3	24.7
8	2.7	805DCH2R7Z	4	4	6	29.16	2.3143	0.8855	3.5	5.703	24.7X3	24.7



D+0.5	9.6	9.7	11.5	12.7	19	20.2	24.7
L+0.5	4.2	5.3	4.5	4.1	4.5	4.9	6.3
S+0.5	9.9	9.8	10.5	13.1	20	20.5	24.7
A+0.5	9.9	10	12.4	13.1	20.5	21	25
T+0.05	0.2	0.2	0.2	0.2	0.2	0.2	0.2
W+0.1	0.8	0.8	0.8	0.8	0.8	1.8	1.8
LL+0.5	9.8	10.8	10.5	9.8	10	9	10