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			

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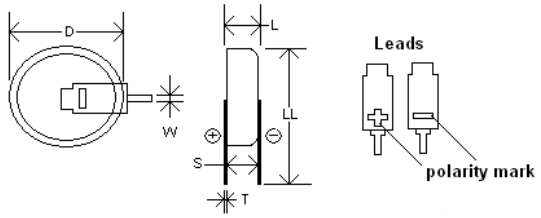
Standard Part Listing

Lead style V

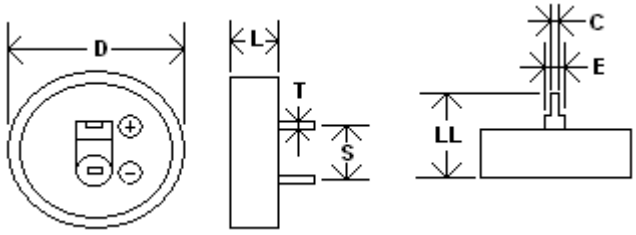
Cap (F)	VDC	IC PART NUMBER	Max current (A)	ESR AC (Ω), 1kHz	ESR DC (Ω)	Max stored energy (W-s)	Specific Energy Gravimetric Density (Wh/kg)	Specific Energy Gravimetric Density (Wh/l)	Weight (grams)	Volume (mL)	Dims DxL (mm)	Lead spacing S (mm)
0.22	5.5	224DCV5R5Z	0.605	85	125	0.000924	3.6972	2.7364	0.9	1.216	9.6x4.2	4.6
0.22	5.5	224DCV5R5ZBD	0.605	75	110	0.000924	3.6972	7.1192	0.9	0.4674	11.5x4.5	5
0.33	5.5	334DCV5R5Z	0.9075	85	125	0.001386	4.5375	3.1852	1.1	1.567	9.7x5.5	5.9
0.33	5.5	334DCV5R5ZBD	0.9075	75	110	0.001386	4.5375	10.6788	1.1	0.4674	11.5x4.5	5
0.47	5.5	474DCV5R5Z	1.2925	65	100	0.001975	5.4683	2.8630	1.3	2.483	12.7x4.5	4.9
0.47	5.5	474DCV5R5ZLD	1.2925	50	75	0.001975	5.4683	5.5716	1.3	1.2759	19x4.5	5
0.68	5.5	684DCV5R5ZLD	1.87	30	45	0.002857	3.4283	8.0610	3	1.2759	19x4.5	5
1	5.5	105DCV5R5Z	2.75	25	40	0.004201	4.7266	2.8981	3.2	5.219	18.8x4.3	4.7
1	5.5	105DCV5R5ZLD	2.75	25	40	0.004201	4.7266	11.8544	3.2	1.2759	19x4.5	5
1.5	5.5	155DCV5R5Z	4.125	20	30	0.006302	5.7437	3.6121	3.95	6.281	20.2x4.6	4.9
1.5	5.5	155DCV5R5ZLD	4.125	25	40	0.006302	5.7437	17.7816	3.95	1.2759	19x4.5	5
4	5.5	405DCV5R5Z	11	16	25	0.016806	8.6429	10.5217	7	5.75	24.7x6.3	6.7
8	2.7	805DCV2R7Z	10.8	4	6	0.008100	8.3314	5.1131	3.5	5.703	24.7x3	3



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)
0.22	5.5	224DCC5R5ZBH	0.605	75	110	0.000924	1.1474	3.3209	2.9	1.002	13.5x7	5
0.33	5.5	334DCC5R5ZBH	0.9075	75	110	0.001386	1.6101	4.9813	3.1	1.002	13.5x7	5
0.47	5.5	474DCC5R5ZMH	1.2925	50	75	0.001975	0.8886	3.0767	8	2.3105	20.5x7	5
0.68	5.5	684DCC5R5ZMH	1.87	30	45	0.002857	1.2543	4.4514	8.2	2.3105	20.5x7	5
1	5.5	105DCC5R5ZMH	2.75	25	40	0.004201	4.7266	5.9925	3.2	2.524	20.5x7.5	5
1.5	5.5	155DCC5R5ZMH	4.125	25	40	0.006302	2.5208	9.8193	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

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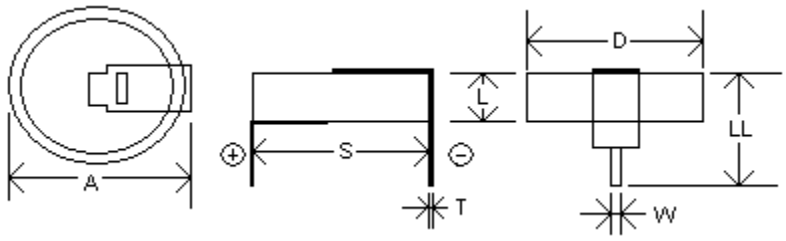
Standard Part Listing

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)
0.22	5.5	224DCH5R5Z	0.605	85	125	0.000924	3.6972	2.7364	0.9	1.216	9.6x4.2	9.9
0.22	5.5	224DCH5R5ZBD	0.605	75	110	0.000924	3.6972	7.1192	0.9	0.4674	11.5x4.5	10
0.33	5.5	334DCH5R5Z	0.9075	85	125	0.001386	4.5375	3.1852	1.1	1.567	9.7x5.3	9.8
0.33	5.5	334DCH5R5ZBD	0.9075	75	110	0.001386	4.5375	10.6788	1.1	0.4674	11.5x4.5	10
0.47	5.5	474DCH5R5Z	1.2925	65	100	0.001975	5.4683	3.1878	1.3	2.23	12.7x4.1	13.1
0.47	5.5	474DCH5R5ZLD	1.2925	50	75	0.001975	5.4683	5.5716	1.3	1.2759	19x4.5	20
0.68	5.5	684DCH5R5ZLD	1.87	30	45	0.002857	3.4283	8.0610	3	1.2759	19x4.5	20
1	5.5	105DCH5R5Z	2.75	25	40	0.004201	4.7266	3.1675	3.2	4.775	18.8x4.3	19.2
1	5.5	105DCH5R5ZLD	2.75	25	40	0.004201	4.7266	11.8544	3.2	1.2759	19x4.5	20
1.5	5.5	155DCH5R5Z	4.125	20	30	0.006302	5.7437	3.6121	3.95	6.281	20.2x4.9	20.5
1.5	5.5	155DCH5R5ZLD	4.125	25	40	0.006302	5.7437	17.7816	3.95	1.2759	19x4.5	20
4	5.5	405DCH5R5Z	11	16	25	0.016806	8.6429	10.5217	7	5.75	24.7x6.3	24.8
8	2.7	805DCH2R7Z	10.8	4	6	0.008100	8.3314	5.1131	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

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