



FEATURES

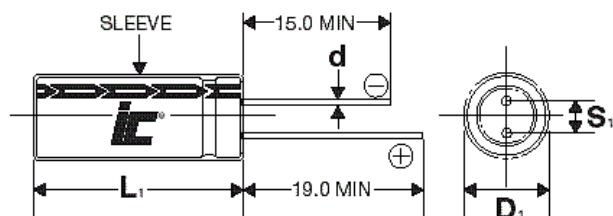
High Capacitance – Very fast charge/discharge – High power density

APPLICATIONS

Battery backup/ alternative – LED Displays – DC/DC converters –
Pulse power

Operating Temperature Range		-25°C to +70°C	
Storage Temperature		-40°C to +70°C	
Capacitance Tolerance		+50%/-20% @ 25°C	
Surge voltage	WVDC	2.5	
	SVDC	2.7	
Maximum Current		See standard part listing	$0.5 \cdot WVDC / (ESR_{DC} + (1/C))$
Leakage Current		See standard part listing	72 hours, 25°C
Life time		1000 hours at rated voltage and 70°C	
		Capacitance change	±30% of initially measured values
		ESR	≤200% of initially specified values
Life cycles (25°C) 1 cycle= Charge to WVDC for 20s, constant voltage charging for 10s, discharge to ½ WVDC for 20s, rest for 10 s		500,000 cycles	
		Capacitance change	±30% of initially measured values
		ESR	≤200% of initially specified values

D= 8 to 18mm



Lead spacing VS. Case diameter					
D	8(L>20)	8(L>20)	10	16	18
S	3.5	3.5	5.0	7.5	7.5
d	0.5	0.6	0.6	0.8	0.8

$L_1 = L + 1.5\text{mm}$
 $D_1 = D + 0.5\text{mm}$
 $S_1 = S \pm 0.5\text{mm}$

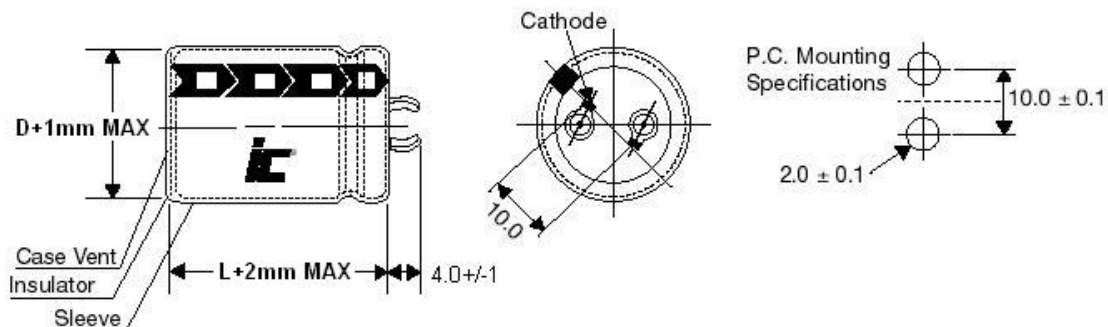
DER

Radial Leaded Super Capacitors

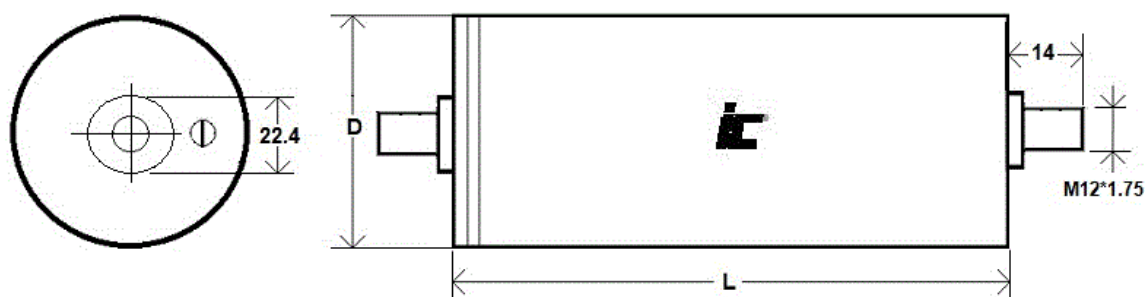


Snap in types

$20\text{mm} \leq D < 60\text{mm}$



Capacitance = 500F to 650F



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DER

Radial lead, +70°C

Capacitance (F)	WVDC	IC PART NUMBER	MAX Current (A)	ESR AC 1 kHz (mΩ)	DC ESR (mΩ) 20°C	Max stored energy (mWh)	LC (mA), (72 hrs)	Specific Energy Gravimetric Density (wh/kg)	Specific Energy Volumetric Density (wh/l)	Specific Power Gravimetric Density (kw/kg)	Specific Power Volumetric Density (kw/l)	Weight (grams)	Volume (mL)	Dims DxL (mm)	Lead Spacing (mm)
1.0	2.5	105DER2R5SFN	0.63	500	1000	0.868	0.008	1.0117	1.4391	0.8741	1.2434	0.858	0.603	8x12	3.5
2.0	2.5	205DER2R5SFQ	1.19	350	550	1.736	0.01	1.6001	2.1587	1.2568	1.6955	1.085	0.804	8x16	3.5
3.0	2.5	305DER2R5SFU	1.91	200	320	2.604	0.012	2.075	2.5904	1.8675	2.3314	1.255	1.005	8x20	3.5
3.3	2.5	335DER2R5SGU	2.01	200	320	2.865	0.014	1.3641	1.8237	1.1161	1.4921	2.1	1.571	10x20	5
4.7	2.5	475DER2R5SGU	2.49	180	290	4.08	0.016	1.7997	2.5973	1.1408	1.6464	2.267	1.571	10x20	5
7.0	2.5	705DER2R5SGV	3.44	140	220	6.076	0.02	2.3736	3.0947	1.3317	1.7362	2.56	1.963	10x25	5
10.0	2.5	106DER2R5SGW	5	100	150	8.681	0.03	2.7957	3.6841	1.6103	2.1221	3.105	2.356	10x30	5
10.0	2.5	106DER2R5STV	4.81	100	160	8.681	0.03	2.4887	2.8294	1.3439	1.5279	3.488	3.068	12.5x25	5
22.0	2.5	226DER2R5SKV	8.59	60	100	19.097	0.06	2.6639	3.7993	1.0462	1.4921	7.169	5.027	16x25	7.5
30.0	2.5	306DER2R5SKW	12.1	40	70	26.042	0.07	3.1486	4.3174	1.2954	1.7763	8.271	6.032	16x30	7.5
50.0	2.5	506DER2R5SLZ	17.9	30	50	43.403	0.16	3.061	4.2641	1.058	1.4737	13.01	10.179	18x40	7.5
100.0	2.5	107DER2R5SBG	27.8	25	35	86.806	0.3	4.4379	5.0746	1.0955	1.2527	19.56	17.106	22x45	10
100.0	2.5	107DER2R5SLB	27.8	25	35	86.806	0.3	4.1613	5.6854	1.0273	1.4035	20.86	15.268	18x60	7.5
150.0	2.5	157DER2R5SCP	34.1	22	30	130.207	0.55	3.8523	4.8229	0.7396	0.926	33.8	26.998	25x55	10
200.0	2.5	207DER2R5SDH	41.7	20	25	173.611	0.7	4.4075	4.9122	0.7616	0.8488	39.39	35.343	30x50	10
250.0	2.5	257DER2R5SDP	48.1	18	22	217.014	0.8	4.4977	5.582	0.7065	0.8769	48.25	38.877	30x55	10
350.0	2.5	357DER2R5SEZ	70	12	15	303.819	1	4.5818	5.2631	0.754	0.8661	66.31	57.727	35x60	0
500.0	2.5	507DER2R5SEW	89	10	12	434.028	1.3	3.7	4.7486	0.5328	0.6838	117.3	91.4	35x95	0
650.0	2.5	657DER2R5SZZ	502	0.8	0.95	564.236	2.3	2.5	3.326	3.498	4.6537	225.7	169.65	60x60	0