

(42L) Snubber & High-Current DC

850, 1200, 2000, and 3000 Volts Peak

The 42L series are high performance metallized polypropylene, axial leaded capacitors **designed for tough high voltage electronic applications**. Applications for this product include battery charging systems, industrial controls, AC inverters, AC drives, un-interruptable power supply systems and power conditioning products. These capacitors are **designed for minimum series inductance (ESL) and very low series resistance (ESR)** to minimize power dissipation and provide an extremely reliable product with unsurpassed performance characteristics. If there are **any questions** regarding the correct application of these products, please **contact your RBC sales representative**.

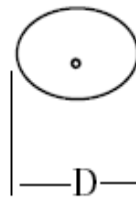
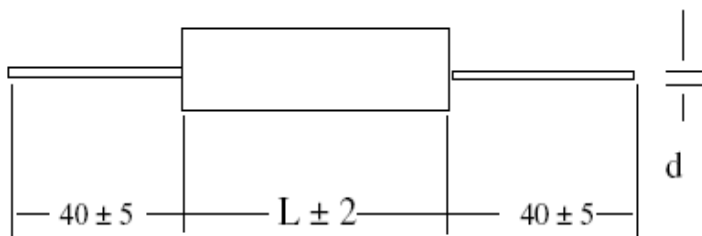
SPECIFICATIONS:

Available Capacitance Range:	0.01 to 2.6 μ F (Other custom ratings available)
Capacitance Tolerance:	\pm 5%
Rated Voltage VDC:	850V – 1200V – 2000V – 3000V
Leads:	20, 18, 16 AWG electroplated
Package Construction:	Polyester wrapping with epoxy resin end fill
Flame Retardant:	Polyester coating as UL 510, Epoxy resin as UL 94 VI
Storage Temperature:	-40°C to +85°C
Operating Temperature:	-40°C to +85°C (Operation at rated power, rated current and natural cooling)
Insulation Resistance Test Conditions:	Temperature: +25°C \pm 5°C Voltage Charge Time: 1 Minute Voltage Charge: 100 VDC Typ. Value: 3,000 sec.
Dissipation Factor (tgδ)	5 x 10 ⁻⁴ at 1 KHz and 25°C
Capacitance Deviation:	\pm 1.5% Max on capacitance value at 25°C temperature range -40°C to +85°C
Change of Capacitance Vs Op. Time:	-3% after 30,000 Hrs at VAC or after 100,000 Hrs at VDC
Life Expectancy:	30,000 Hours at VAC
Failure Quota:	300/10 ⁹ components hours



(42L) Snubber & High-Current DC Ratings

Voltage Rating	Capacitance (μF)	Catalog Number	dV / dt V / us	IPKR (A)	ESR typ. at 100 KHz (m Ω)	IRMS @ 100 KHz -70°C (A)	Dimensions	
							D max	L
850 VDC (450 VAC)	0.150	42L1152	300	45	9.5	5	10.0	31
	0.220	42L1222	300	66	6.6	7	12.0	31
	0.330	42L1332	300	100	4.6	9	14.5	31
	0.470	42L1472	300	140	3.5	9	17.0	31
	0.680	42L1682	300	200	2.7	9	20.5	31
	1.000	42L1101	200	200	3.1	9	20.5	42
	1.500	42L1151	200	300	2.3	11	24.5	42
	2.000	42L1201	200	400	2.0	11	28.5	42
	2.200	42L1221	200	440	1.9	11	30.0	42
2.500	42L1251	200	500	1.9	11	31.5	42	
1200 VDC (500 VAC)	0.100	42L2102	1100	110	8.7	7	14.0	31
	0.150	42L2152	1100	165	6.1	9	17.0	31
	0.220	42L2222	1100	240	4.5	9	20.5	31
	0.330	42L2332	650	215	4.7	9	19.5	42
	0.470	42L2472	650	305	3.6	9	23.0	42
	0.680	42L2682	650	440	2.7	11	27.5	42
	1.000	42L2101	650	650	2.3	11	33.5	42
	1.200	42L2121	400	480	2.8	11	29.0	55
	2000 VDC (630 VAC)	0.022	42L3223	1750	39	31.9	3	10.5
0.033		42L3333	1750	58	21.4	4	12.5	31
0.047		42L3473	1750	80	15.2	5	14.5	31
0.068		42L3683	1750	120	10.8	7	17.0	31
0.100		42L3102	1750	175	7.6	9	20.5	31
0.150		42L3152	1000	150	7.4	9	19.5	42
0.220		42L3222	1000	220	5.4	9	23.5	42
0.330		42L3332	1000	330	3.9	11	28.5	42
0.470		42L3472	1000	470	3.1	11	33.5	42
0.560		42L3562	650	365	3.9	11	29.0	55
3000 VDC (750 VAC)	0.010	42L4103	2750	28	61.6	2	12.0	31
	0.015	42L4153	2750	41	41.3	3	14.0	31
	0.022	42L4223	2750	60	28.4	4	16.5	31
	0.033	42L4333	2750	90	19.2	5	20.0	31
	0.047	42L4473	1600	75	17.9	6	18.5	42
	0.068	42L4683	1600	110	12.6	8	22.0	42
	0.100	42L4102	1600	160	8.8	11	26.5	42
	0.150	42L4152	1600	240	6.2	11	32.0	42



D	< 10mm	> 10 mm ≤ 22 mm	> 22 mm
d	0.8 mm (20 AWG)	1.0 mm (18 AWG)	1.2 mm (16 AWG)

Vdc	850 V	1200 V	2000 V	3000 V
Vp	1200 V	1600 V	2400 V	3500 V

