

Snubber and High-Current DC Capacitors

42L



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.

Specifications

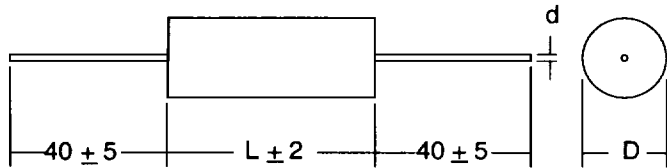
Available capacitance range01 - 2.6 μ F (Other custom ratings available)	
Capacitance tolerance	\pm 5%	
Rated voltage Vdc (D.C.)	850 - 1200 - 2000- 3000V	
Leads	Tinned solid copper wire (medium lead content 5%)	
Package construction	Polyester wrapping with epoxy resin end fill	
Flame retardant	Polyester coating as UL 510 Epoxy resin as UL 94 V1	
Storage temperature	-40 to +85°C	
Operating temperature	-40°C to 70°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 (tg δ)	5 x 10 ⁻⁴ at 1 KHz and 25°C	
Capacitance deviation in the	\pm 1.5% Max on capacitance value at 25°C	
temperature range of -40 to +85°C		
Change of capacitance versus	-3% after 30,000 hours at Vac or after	
operating time	100,000 hours at Vdc	
Life expectancy	30,000 hours at V ac	
Failure quota	300/10 ⁹ components hours	



**GE Motors
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Capacitors

Outline Dimensions in Millimeters



D	< 10mm	> 10mm ≤ 22mm	> 22mm
d	0.8mm (20 AWG)	1mm (18 AWG)	1.2mm (16 AWG)

V _{dc}	850V	1200 V	2000 V	3000 V
V _p	1200 V	1600 V	2400 V	3500 V

GENERAL CHARACTERISTICS

Catalog Number	C μF	Rated V _{dc}	Rated Vac	dV/dt V/μs	I _{PKR} A	ESR typ. at 100 KHz mΩ	I _{RMS} @100 KHz - @70°C A	Dimensions	
								D max	L
42L1152	0.15	850	450	300	45	9.5	5	10.0	31
42L1222	0.22	850	450	300	66	6.6	7	12.0	31
42L1332	0.33	850	450	300	100	4.6	9	14.5	31
42L1472	0.47	850	450	300	140	3.5	9	17.0	31
42L1682	0.68	850	450	300	200	2.7	9	20.5	31
42L1101	1.0	850	450	200	200	3.1	9	20.5	42
42L1151	1.5	850	450	200	300	2.3	11	24.5	42
42L1201	2.0	850	450	200	400	2.0	11	28.5	42
42L1221	2.2	850	450	200	440	1.9	11	30.0	42
42L1251	2.5	850	450	200	500	1.9	11	31.5	42
42L2102	0.1	1200	500	1100	110	8.7	7	14.0	31
42L2152	0.15	1200	500	1100	165	6.1	9	17.0	31
42L2222	0.22	1200	500	1100	240	4.5	9	20.5	31
42L2332	0.33	1200	500	650	215	4.7	9	19.5	42
42L2472	0.47	1200	500	650	305	3.6	9	23.0	42
42L2682	0.68	1200	500	650	440	2.7	11	27.5	42
42L2101	1.0	1200	500	650	650	2.3	11	33.5	42
42L2121	1.2	1200	500	400	480	2.8	11	29.0	55
42L3223	0.022	2000	630	1750	39	31.9	3	10.5	31
42L3333	0.033	2000	630	1750	58	21.4	4	12.5	31
42L3473	0.047	2000	630	1750	80	15.2	5	14.5	31
42L3683	0.068	2000	630	1750	120	10.8	7	17.0	31
42L3102	0.1	2000	630	1750	175	7.6	9	20.5	31
42L3152	0.15	2000	630	1000	150	7.4	9	19.5	42
42L3222	0.22	2000	630	1000	220	5.4	9	23.5	42
42L3332	0.33	2000	630	1000	330	3.9	11	28.5	42
42L3472	0.47	2000	630	1000	470	3.1	11	33.5	42
42L3562	0.56	2000	630	650	365	3.9	11	29.0	55
42L4103	0.01	3000	750	2750	28	61.6	2	12.0	31
42L4153	0.015	3000	750	2750	41	41.3	3	14.0	31
42L4223	0.022	3000	750	2750	60	28.4	4	16.5	31
42L4333	0.033	3000	750	2750	90	19.2	5	20.0	31
42L4473	0.047	3000	750	1600	75	17.9	6	18.5	42
42L4683	0.068	3000	750	1600	110	12.6	8	22.0	42
42L4102	0.1	3000	750	1600	160	8.8	11	26.5	42
42L4152	0.15	3000	750	1600	240	6.2	11	32.0	42



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