

Switching Capacitors

41L



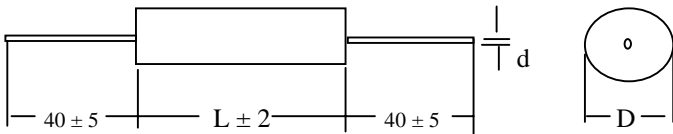
Description

The 41L series are high performance metallized polypropylene, axial leaded capacitors specifically suited for demanding electronic applications. Applications for this series of capacitors include electronic ballasts, industrial controls, motor running, brushless motor speed control, switch mode power supplies (SMPS), un-interruptable power supply systems and induction ovens. 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 excellent performance characteristics.

Product Scope

Available capacitance range..... .68-30 μ F (other custom ratings available)
Capacitance tolerance..... +/-5%
Rated voltage Vdc (D.C.).....250V-400V-600V-700V
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 94VI
Storage Temperature.....-40 to+85°C
Operating temperature.....-40 to +85°C
(Operation at rated power, rated current and natural cooling)
Insulation resistance test conditions...Temperature : +25°C +/-5°C
Voltage charge time : 1 minute
Voltage charge : 100 Vdc
Typ. Value : 3,000 sec.
Dissipation factor(tg δ).....5x10E-4 at 1 KHz and 25°C
Accelerated Life test.....Units are exposed to 85° +/-1% while being held at 125% of rated DC voltage for 1000 hrs. type test only
Capacitance deviation in the.....+/- 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 Vac
Failure quota..... 300/10E9 components hours

41L Switching Capacitors



General Characteristics

Catalog Number	C μF	Rated Vdc	Rated Vac	dV/dt V/μs	IPKR	A	ESR typ. at 100 KHz mΩ	LRMS @100 KHz - @70° C A	Dimensions	
									D max	L
41L2101	1.0	250	160	90	90		2.7	5	11.0	19
41L2151	1.5	250	160	50	75		5.4	7	10.0	31
41L2221	2.2	250	160	50	110		3.7	9	11.5	31
41L2251	2.5	250	160	50	125		3.3	9	12.0	31
41L2301	3.0	250	160	50	150		2.9	9	13.5	31
41L2501	5.0	250	160	50	250		2.1	9	17.0	31
41L2681	6.8	250	160	50	340		1.8	9	20.0	31
41L2100	10.0	250	160	30	300		2.1	9	20.0	42
41L2150	15.0	250	160	30	450		1.6	11	24.5	42
41L2200	20.0	250	160	30	600		1.5	11	28.0	42
41L2250	25.0	250	160	30	750		1.5	11	31.5	42
41L2300	30.0	250	160	20	600		2.6	11	29.5	55
41L4682	0.68	400	250	70	48		7.4	6	10.0	31
41L4101	1.0	400	250	70	70		5.1	8	12.0	31
41L4151	1.5	400	250	70	105		3.6	9	14.5	31
41L4201	2.0	400	250	70	140		2.9	9	16.5	31
41L4221	2.2	400	250	70	155		2.8	9	17.5	31
41L4251	2.5	400	250	70	175		2.5	9	18.5	31
41L4301	3.0	400	250	70	210		2.3	9	20.0	31
41L4401	4.0	400	250	50	200		3.0	9	19.5	31
41L4471	4.7	400	250	50	235		2.7	9	21.0	42
41L4501	5.0	400	250	50	250		2.6	9	21.5	42
41L4681	6.8	400	250	50	340		2.1	11	25.0	42
41L4100	10.0	400	250	50	500		1.8	11	30.0	42
41L4150	15.0	400	250	30	450		3.1	11	32.0	55
41L6101	1.0	600	330	100	100		4.2	9	15.5	31
41L6201	2.0	600	330	75	150		4.1	9	18.5	42
41L6221	2.2	600	330	75	165		3.9	9	19.5	42
41L6301	3.0	600	330	75	225		3.1	9	22.5	42
41L6471	4.7	600	330	75	350		2.3	11	27.5	42
41L6501	5.0	600	330	75	375		2.2	11	28.5	42
41L6681	6.8	600	330	50	340		4.5	11	28.5	55
41L6100	10.0	600	330	50	500		3.5	11	34.5	55
41L7682	0.68	700	400	125	85		4.6	9	17.0	31
41L7101	1.0	700	400	125	125		3.4	9	20.5	31
41L7151	1.5	700	400	90	135		4.2	9	20.5	42
41L7201	2.0	700	400	90	180		3.3	11	23.5	42
41L7221	2.2	700	400	90	200		3.1	11	24.5	42
41L7301	3.0	700	400	90	270		2.6	11	28.5	42
41L7401	4.0	700	400	90	360		2.2	11	33.0	42
41L7471	4.7	700	400	60	280		5.2	11	30.0	55
41L7501	5.0	700	400	60	300		4.9	11	30.5	55



GE Industrial Systems