

# Snubber and High-Current DC Capacitors

# 40L



## 400 and 600 Volts Peak

The 40L series are high-performance dry, axial-leaded capacitors specifically designed for demanding electronic applications. They are commonly used in input and output filters and for DC blocking in high frequency switch mode power supplies. The low electrical losses of the polypropylene film dielectric combined with the enhanced current carrying ability of the special “graded” metallized electrodes results in outstanding performance.

## Specifications

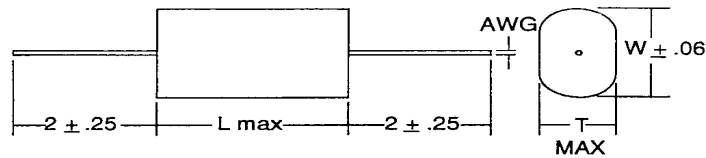
Available Capacitance Range.....	0.47 to 10.0 $\mu$ F
Capacitance Tolerance.....	+/- 10%
Capacitance Variation with Temperature.....	+/- 3% from -55°C to + 105°C
Rated Voltage.....	See ratings Tables. The rating is the Maximum Peak DC Voltage
Rated Current.....	See Ratings Tables. The rating is the Maximum Allowable RMS current in amperes
Equivalent Series Resistance (ESR) .....	See Ratings Table. The rating is the maximum value measured at 25°C in the range 20-100 KHz
Capacitance.....	Values shown in the table at 25°C, 1KHz
Operating Temperature.....	-55°C to + 105°C
Storage Temperature .....	-55°C to + 105°C
Dissipation Factor.....	0.1% maximum @25°C .1KHz
Insulation Resistance.....	200,000M $\Omega$ – $\mu$ F minimum at 100 Vdc after 1 minute energizati at 25°C
Accelerated Life test.....	Units are exposed to 105°C+/-1°C while being held at 150% of rated DC voltage for 1000 hrs.
Leads.....	20 or 18 AWG electroplated solid copper wire leads (gauge tolerance :+/-0.001 in)
Package construction.....	Fire retardant tape wrap over printing to meet MIL - STD - 202 Filled with a polyurethane or equivalent potting compound

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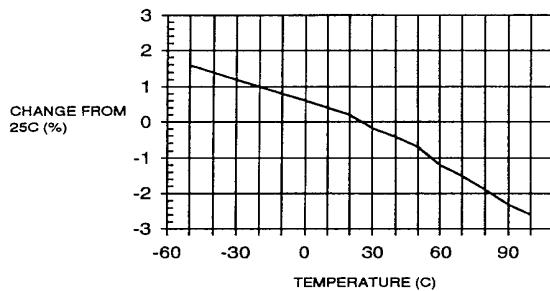
## General Characteristics

Catalog Number	C $\mu$ F	Rated Vdc	Rated Vac	Dv/dt V/ $\mu$ s	IPKR A	ESR @ 25° C typ at 100 KHZ m $\Omega$	IRMS 100 KHZ-70° C A	Dimensions		
								T	W	L
40L3472	0.47	400	250	70	100	21	4	0.28	0.47	1.25
40L3682	0.68	400	250	70	150	13	6	0.30	0.53	1.25
40L3101	1.00	400	250	70	200	11	9	0.39	0.59	1.25
40L3151	1.50	400	250	70	250	9	10	0.48	0.69	1.25
40L3201	2.00	400	250	70	300	9	10	0.48	0.69	1.25
40L3221	2.20	400	250	70	350	8	11	0.56	0.83	1.25
40L3331	3.30	400	250	70	500	7	15	0.69	0.93	1.25
40L3471	4.70	400	250	50	450	7	17	0.64	0.88	1.75
40L3681	6.80	400	250	50	550	7	17	0.67	0.90	2.25
40L3100	10.00	400	250	50	700	7	17	0.70	1.05	2.25
40L6472	0.47	600	330	100	200	13	4	0.46	0.69	1.25
40L3682	0.68	600	330	100	200	10	6	0.55	0.79	1.25
40L6101	1.00	600	330	100	200	8	9	0.67	0.91	1.25
40L6151	1.50	600	330	100	250	7	11	0.73	0.97	1.50
40L6221	2.20	600	330	75	300	10	13	0.64	0.88	2.25

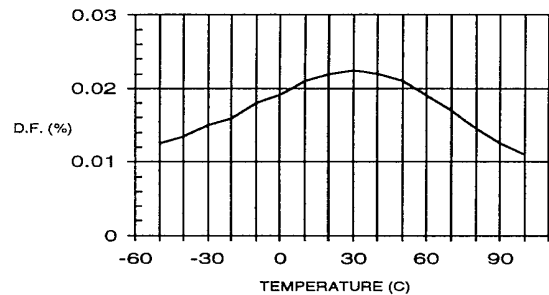
Outline Dimensions in Inches



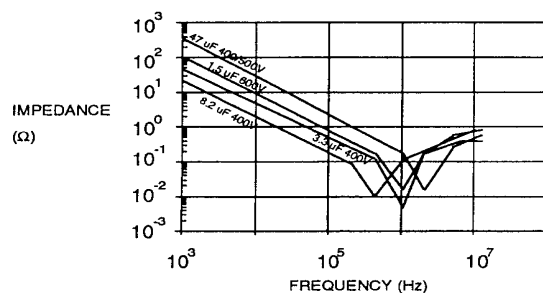
% Capacitance Change vs Temperature



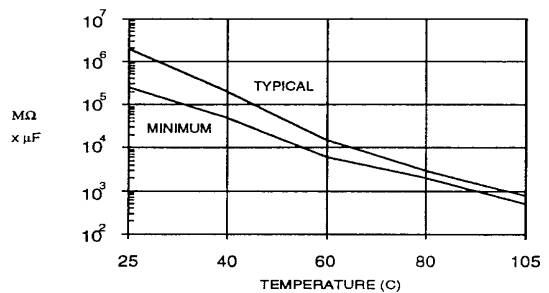
% Dissipation Factor vs Temperature



Impedance vs Frequency



Insulation Resistance vs Temperature



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