



TYPE **LQ** HIGH VOLTAGE FILTER CAPACITORS

65°C PHENOLIC CAP - PLASTIC FILM DC FILTER

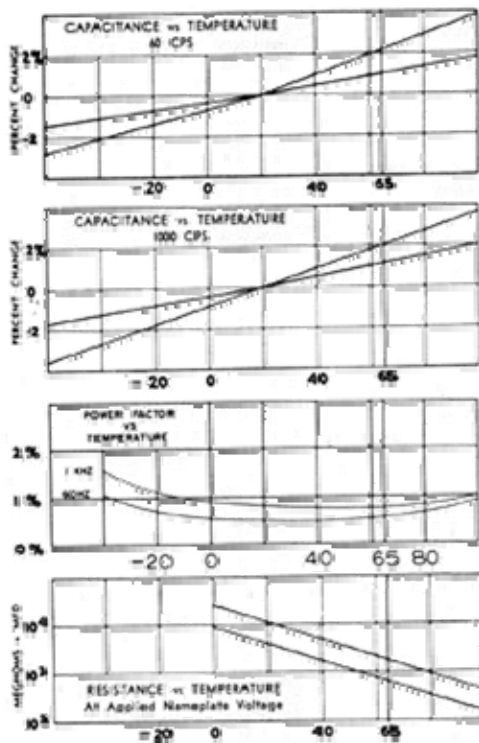
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The data contained herein shows only a PARTIAL LISTING of items available for this product line and it gives only a CONDENSED VERSION of the applicable specifications and characteristics. Request our complete catalog for full information!



Type **LQ** capacitors are designed for DC application such as filtering, bypass and coupling application. Type **LQ** capacitors are offered with internal construction variations designed to meet various circuit conditions. The following suffix letters identify these constructions.

Suffix "V" is extended foil (non-inductively wound), providing soldered contacts thruout. These capacitors are useful when used as a filter in a power supply which has a very low current output, or if the capacitor must supply high surge currents. They are oil impregnated, and epoxy filled.



Suffix "Y" is the standard inserted tab construction for filter and bypass applications and are oil impregnated, and epoxy filled.

The Case is a black phenolic shell. The epoxy end fill is heat resistant and provides a positive seal to the phenolic shell.

Impregnant used for suffix types "V" and "Y" is a highly refined, purified and inhibited combination of natural mineral oil and a synthetic oil, the flash point is greater than 145°C when measured per method 110.3.4 of specification VV-L-791.

Mounting Position all types LQ capacitors will operate satisfactorily in any mounting position.

Terminals are Copperweld leads. The wire gauge and length used are functions of the case size; minimum of 1-3/4 inch length, #20 or #22 wire.

AC Applications the phenolic shell is a useful housing for low cost alternating current applications. By the judicious use of available low loss dielectrics, the frequency range can be extended to 30 megahertz. Call us at (773) 489-2233 or send us an [E-Mail](#) for recommendations.

Temperature Range -20°C to 65°C with nameplate voltage applied.

Test Voltage Terminal to terminal is 150% rated voltage for one minute without a permanent breakdown.

Capacitance Tolerance Standard capacitance tolerance is $\pm 10\%$. Standard

tolerances not marked.

Life type LQ capacitors are designed for continuous operation at 65°C for 10,000 hours.

Dielectric Resistance is given in the "R vs. T" graph. Measurement can be made with nameplate voltage. Capacitance values under 1 mfd. need not exceed two times the graph value per mfd. at any temperature.

Humidity Resistance Test will meet requirements of EIA RS 164.

SUFFIX "V" Extended foil oil impregnated.

1000 VDCW

1500 VDCW

2000 VDCW

Part Number	Cap. MFD.	Dia. $\pm 1/16$	Lg. +1/8 -1/16	Part Number	Cap. MFD.	Dia. $\pm 1/16$	Lg. +1/8 -1/16	Part Number	Cap. MFD.	Dia. $\pm 1/16$	Lg. +1/8 -1/16
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LQ10-203V	0.02	1/2	1-1/4		LQ15-203V	0.02	1/2	1-1/2		LQ20-103V	0.01	1/2	1-1/2
LQ10-503V	0.05	1/2	1-1/2		LQ15-503V	0.05	5/8	1-7/8		LQ20-203V	0.02	1/2	1-1/2
LQ10-104V	0.1	5/8	1-7/8		LQ15-104V	0.1	3/4	2		LQ20-503V	0.05	5/8	1-7/8
LQ10-254V	0.25	3/4	2-1/4		LQ15-254V	0.25	7/8	2-1/2		LQ20-104V	0.1	3/4	2-1/4
LQ10-504V	0.5	1	2-1/2		LQ15-504V	0.5	1-7/16	3		LQ20-254V	0.25	1	2-1/2
LQ10-105V	1.0	1-7/16	3		LQ15-105V	1.0	2-1/16	3		LQ20-504V	0.5	1-7/16	3
LQ10-205V	2.0	1-13/16	3		LQ15-205V	2.0	2-1/16	3-1/2		LQ20-105V	1.0	1-13/16	3
LQ10-405V	4.0	2-1/16	4							LQ20-205V	2.0	2-1/16	3-1/2

3000 VDCW

4000 VDCW

5000 VDCW

LQ30-103V	0.01	5/8	1-1/2		LQ40-502V	0.005	1/2	1-1/2		LQ50-202V	0.002	1/2	1-1/2
LQ30-203V	0.02	5/8	1-7/8		LQ40-103V	0.01	5/8	1-1/2		LQ50-502V	0.005	1/2	1-1/2
LQ30-503V	0.05	3/4	2-1/4		LQ40-203V	0.02	5/8	1-7/8		LQ50-103V	0.01	5/8	1-7/8
LQ30-104V	0.1	7/8	2-1/2		LQ40-503V	0.05	7/8	2-1/4		LQ50-203V	0.02	3/4	2
LQ30-254V	0.25	1-7/16	3		LQ40-104V	0.1	1	2-1/2		LQ50-503V	0.05	7/8	2-1/4
LQ30-504V	0.5	1-13/16	3		LQ40-254V	0.25	1-7/16	3-5/16		LQ50-104V	0.1	1-7/16	3
LQ30-105V	1.0	2-1/16	3-1/2		LQ40-504V	0.5	1-13/16	3-5/16		LQ50-254V	0.25	1-13/16	3
					LQ40-105V	1.0	2-1/16	4					

6000 VDCW

8000 VDCW

10000 VDCW

LQ60-202V	0.002	5/8	1-7/8		LQ80-502V	0.005	1-7/16	3		LQ100-202V	0.002	1-7/16	3
LQ60-502V	0.005	5/8	1-7/8		LQ80-103V	0.01	1-7/16	3		LQ100-502V	0.005	1-7/16	3
LQ60-103V	0.01	3/4	2		LQ80-203V	0.02	1-7/16	3		LQ100-103V	0.01	1-7/16	3
LQ60-203V	0.02	7/8	2-1/4		LQ80-503V	0.05	1-13/16	3		LQ100-203V	0.02	1-7/16	3
LQ60-503V	0.05	1-7/16	3		LQ80-104V	0.1	2-1/16	3-1/2		LQ100-503V	0.05	2-1/16	3
LQ60-104V	0.1	1-7/16	3-5/16							LQ100-104V	0.1	2-1/16	4

12000 VDCW

LQ120-202V 0.01 1-7/16 3-5/16

LQ120-502V 0.02 1-13/16 3-5/16

LQ120-103V 0.05 2-1/16 4

SUFFIX "Y" Inserted tab oil impregnated.

1000 VDCW

1500 VDCW

2000 VDCW

Part Number	Cap. MFD.	Dia. ±1/16	Lg. +1/8 -1/16		Part Number	Cap. MFD.	Dia. ±1/16	Lg. +1/8 -1/16		Part Number	Cap. MFD.	Dia. ±1/16	Lg. +1/8 -1/16
LQ10-503Y	0.05	1/2	1-1/4		LQ15-203Y	0.02	1/2	1-1/4		LQ20-203Y	0.02	1/2	1-1/4
LQ10-104Y	0.1	5/8	1-1/2		LQ15-503Y	0.05	5/8	1-1/2		LQ20-503Y	0.05	5/8	1-1/2
LQ10-254Y	0.25	3/4	2		LQ15-104Y	0.1	5/8	1-7/8		LQ20-104Y	0.1	3/4	1-3/4
LQ10-504Y	0.5	7/8	2-1/2		LQ15-254Y	0.25	7/8	2-1/4		LQ20-254Y	0.25	7/8	2-1/2
LQ10-105Y	1.0	1-7/16	3		LQ15-504Y	0.5	1-7/16	3		LQ20-504Y	0.5	1-7/16	3
LQ10-205Y	2.0	1-13/16	3		LQ15-105Y	1.0	1-13/16	3		LQ20-105Y	1.0	1-13/16	3
LQ10-405Y	4.0	2-1/16	3-1/2		LQ15-205Y	2.0	2-1/16	3		LQ20-205Y	2.0	2-1/16	3-1/2

3000 VDCW

4000 VDCW

5000 VDCW

LQ30-103Y	0.01	1/2	1-1/2		LQ40-502Y	0.005	1/2	1-1/4		LQ50-502Y	0.005	1/2	1-1/4
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LQ30-203Y	0.02	5/8	1-1/2		LQ40-103Y	0.01	1/2	1-1/2		LQ50-103Y	0.01	5/8	1-1/2
LQ30-503Y	0.05	3/4	2		LQ40-203Y	0.02	5/8	1-1/2		LQ50-203Y	0.02	5/8	1-7/8
LQ30-104Y	0.1	7/8	2-1/4		LQ40-503Y	0.05	3/4	2-1/4		LQ50-503Y	0.05	7/8	2-1/4
LQ30-204Y	0.25	1-7/16	3		LQ40-104Y	0.1	7/8	2-1/2		LQ50-104Y	0.1	1	2-1/2
LQ30-504Y	0.5	1-13/16	3		LQ40-254Y	0.25	1-7/16	3		LQ50-254Y	0.25	1-7/16	3-5/16
LQ30-105Y	1.0	2-1/16	3-1/2		LQ40-504Y	0.5	1-13/16	3		LQ50-504Y	0.5	2-1/16	3
					LQ40-105Y	1.0	2-1/16	4					

6000 VDCW

8000 VDCW

10000 VDCW

LQ60-202Y	0.002	1/2	1-1/2		LQ80-502Y	0.005	5/8	1-7/8		LQ100-202Y	0.002	5/8	1-1/2
LQ60-502Y	0.005	5/8	1-1/2		LQ80-103Y	0.01	3/4	2-1/4		LQ100-502Y	0.005	3/4	2
LQ60-103Y	0.01	5/8	1-7/8		LQ80-203Y	0.02	7/8	2-1/2		LQ100-103Y	0.01	7/8	2-1/4
LQ60-203Y	0.02	3/4	2-1/4		LQ80-503Y	0.05	1-7/16	3		LQ100-203Y	0.02	1	2-1/2
LQ60-503Y	0.05	1-7/16	3		LQ80-104Y	0.1	1-13/16	3		LQ100-503Y	0.05	1-7/16	3-5/16
LQ60-104Y	0.1	1-7/16	3		LQ80-254Y	0.25	2-1/16	4		LQ100-104Y	0.1	2-1/16	3
LQ60-254Y	0.25	2-1/16	3-1/2										

12000 VDCW

LQ120-102Y	0.001	5/8	1-7/8
LQ120-202Y	0.002	3/4	2
LQ120-502Y	0.005	7/8	2-1/4
LQ120-103Y	0.01	1	2-1/2
LQ120-203Y	0.02	1-7/16	3
LQ120-503Y	0.05	1-13/16	3-5/16
LQ120-104Y	0.1	2-1/16	4

For further information, call (773) 489-2233 or [E-mail](#) us to have a complete data sheet fax or mail to you.

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