



Series C52

DC-Link Polypropylene Capacitors

Features: Flame retardant to UL94, extended metalized film, dry connection, plastic case with resin sealing, tinned copper wire, high stability, low ESR and ESL, self healing.

Applications: DC-link and filter for UPS, SMPSs, inverter, welding machine power.

Specifications

1) Operating Temperature

-40°C to 85°C.

2) Capacitance

5 μ F to 90 μ F

3) Rated Voltage

500 VDC to 1200 VDC.

4) Tolerance

\pm 5% or \pm 10%.

5) Test Voltage Between Terminals and Case

3000V 50Hz 60s, 25°C \pm 5°C.

6) Test Voltage Between Terminals

1.5 rated DC voltage 10s 25°C \pm 5°C.

7) Dissipation Factor

0.1% max at 25°C \pm 5°C, 1 kHz

8) Insulation Resistance

5000 M Ω • μ F min, AT 100 VDC, 25°C \pm

9) Life Expectancy

200000h at rated DC voltage and 70°C.

10) Reference Standards

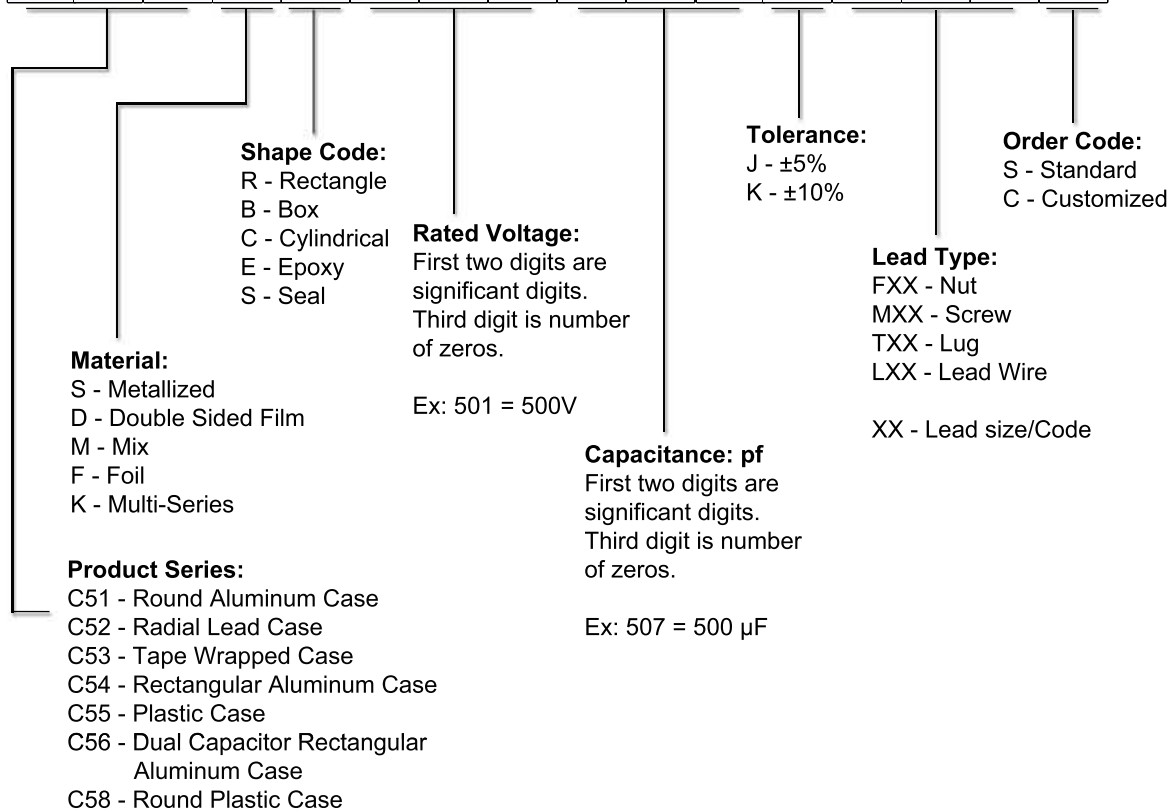
GB/T 17702, IEC 61071

Surge Voltage Limits

Surge Voltage (VDC)	Max Duration
1.1 x Rated	30% of service period
1.15 x Rated	30 min./day
1.2 x Rated	5 min./day
1.3 x Rated	1 min./day
1.5 x Rated	100mS/day; no more than 1000 times

DC Link Nomenclature

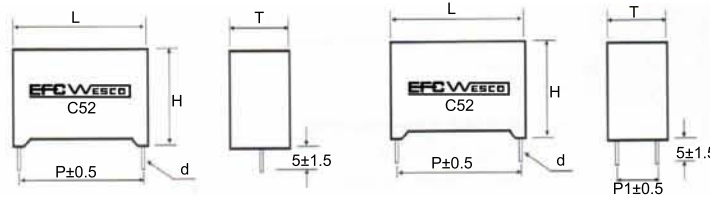
C 5 1 S C 5 0 1 5 0 7 K T X X C



C52

Radial Lead Case

DC Link Polypropylene Capacitors



Dimensions and Ratings

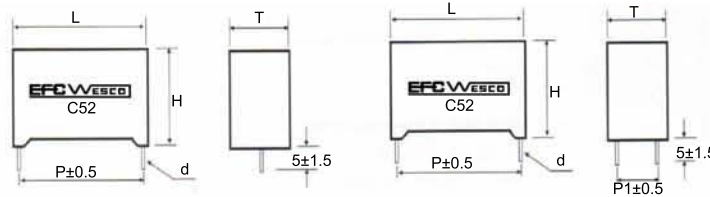
Cap.	500 VDC									
µF	Part #	Dimension (mm)						dv/dt V/µs	Irms Max A	ESR (mΩ)
		L	T	H	P	P1	d			
16	C52SB501166KL**#	42.5	24.5	27.5	37.5		1.2	20	10.0	7.0
25	C52SB501256KL**#	42.5	28.0	37.0	37.5		1.2	20	12.0	4.2
25	C52SB501256KL**#	42.5	28.0	37.0	37.5	10.0	1.2	20	14.0	4.2
35	C52SB501356KL**#	42.5	30.0	45.0	37.5		1.2	20	12.0	3.0
35	C52SB501356KL**#	42.5	30.0	45.0	37.5	20.0	1.2	20	17.0	2.5
40	C52SB501406KL**#	42.5	33.0	45.0	37.5		1.2	20	12.0	2.8
40	C52SB501406KL**#	42.5	33.0	45.0	37.5	20.0	1.2	20	19.0	2.4
50	C52SB501506KL**#	57.5	30.0	45.0	37.5		1.2	13	12.0	4.0
50	C52SB501506KL**#	57.5	30.0	45.0	52.5	20.0	1.2	13	17.0	3.5
65	C52SB501656KL**#	57.5	35.0	50.0	52.5		1.2	13	12.0	3.3
65	C52SB501656KL**#	58.5	35.0	50.0	52.5	20.0	1.2	13	20.0	2.7
90	C52SB501906KL**#	57.5	42.5	50.0	52.5	20.0	1.2	13	22.0	2.5

Cap.	700 VDC									
µF	Part #	Dimension (mm)						dv/dt V/µs	Irms Max A	ESR (mΩ)
		L	T	H	P	P1	d			
15	C52SB701156KL**#	42.5	24.5	27.5	37.5		1.2	22	10.0	8.0
22	C52SB701226KL**#	42.5	28.0	37.0	37.5		1.2	22	12.0	5.5
22	C52SB701226KL**#	42.5	28.0	37.0	37.5	10.0	1.2	22	12.0	5.2
30	C52SB701306KL**#	42.5	30.0	45.0	37.5		1.2	22	12.0	4.0
30	C52SB701306KL**#	42.5	30.0	45.0	37.5	20.0	1.2	22	15.0	3.5
35	C52SB701356KL**#	42.5	33.0	45.0	37.5		1.2	22	12.0	3.5
35	C52SB701356KL**#	42.5	33.0	45.0	37.5	20.0	1.2	20	18.0	3.1
45	C52SB701456KL**#	57.5	30.0	45.0	52.5		1.2	15	12.0	5.3
45	C52SB701456KL**#	57.5	30.0	45.0	52.5	20.0	1.2	15	20.0	3.5
55	C52SB701556KL**#	57.5	35.0	50.0	52.5		1.2	15	12.0	4.3
55	C52SB701556KL**#	57.5	35.0	50.0	52.5	20.0	1.2	15	22.0	2.8

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Radial Lead Case

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Dimensions and Ratings

Cap.	900 VDC									
μF	Part #	Dimension (mm)						dv/dt V/μs	Irms Max A	ESR (mΩ)
		L	T	H	P	P1	d			
10	C52SB901106KL**#	42.5	24.5	27.5	37.5		1.2	30	8.0	9.5
15	C52SB901156KL**#	42.5	28.0	37.0	37.5		1.2	30	11.0	6.5
15	C52SB901156KL**#	42.5	28.0	37.0	37.5	10.0	1.2	30	11.0	6.0
20	C52SB901206KL**#	42.5	30.0	45.0	37.5		1.2	30	12.0	5.0
20	C52SB901206KL**#	42.5	30.0	45.0	37.5	20.0	1.2	30	13.0	4.5
30	C52SB901306KL**#	57.5	30.0	45.0	52.5		1.2	20	12.0	6.3
30	C52SB901306KL**#	57.5	30.0	45.0	52.5	20.0	1.2	20	16.0	5.9
40	C52SB901406KL**#	57.5	35.0	50.0	52.5		1.2	20	12.0	4.9
40	C52SB901406KL**#	57.5	35.0	50.0	52.5	20.0	1.2	20	20.0	4.5
55	C52SB901556KL**#	57.5	42.5	56.0	52.5	20.0	1.2	20	22.0	3.1

Cap.	1200 VDC									
μF	Part #	Dimension (mm)						dv/dt V/μs	Irms Max A	ESR (mΩ)
		L	T	H	P	P1	d			
5	C52SB122505KL**#	42.5	24.5	27.5	37.5		1.2	40	6.0	13.0
10	C52SB122106KL**#	42.5	28.0	37.0	37.5		1.2	40	10.0	8.0
10	C52SB122106KL**#	42.5	28.0	37.0	37.5	10.0	1.2	40	10.0	7.5
15	C52SB122156KL**#	42.5	33.0	45.0	37.5		1.2	40	12.0	5.5
15	C52SB122156KL**#	42.5	33.0	45.0	37.5		1.2	40	12.0	5.5
22	C52SB122226KL**#	57.5	30.0	45.0	52.5		1.2	27	12.0	7.0
22	C52SB122226KL**#	57.5	30.0	45.0	52.5	20.0	1.2	27	14.0	6.5
25	C52SB122256KL**#	57.5	35.0	50.0	52.5		1.2	27	12.0	6.3
25	C52SB122256KL**#	57.5	35.0	50.0	52.5	20.0	1.2	27	16.0	6.0
40	C52SB122406KL**#	57.5	42.5	56.0	52.5	20.0	1.2	27	20.0	3.5