



Series C53 DC-Link Polypropylene Capacitors

Features: Flame retardant to UL94, extended metalized film, dry connection, polyester tape wrapping with resin sealing, copper nut terminals, high stability, high frequency, low inductance, self healing.

Applications: DC-link and coupling/filtering for UPS, SMPSs, inverter, welding machine power.

Specifications

1) Operating Temperature

-40°C to 85°C.

2) Capacitance

15 μ F to 300 μ F

3) Rated Voltage

600 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

0.2% max at 25°C \pm 5°C, 1kHz

8) Insulation Resistance

5000 M Ω \cdot μ F min, at 100 VDC, 25°C \pm 5°C, 60s

9) Life Expectancy

200000h at rated DC voltage and 70°C.

10) Reference Standards

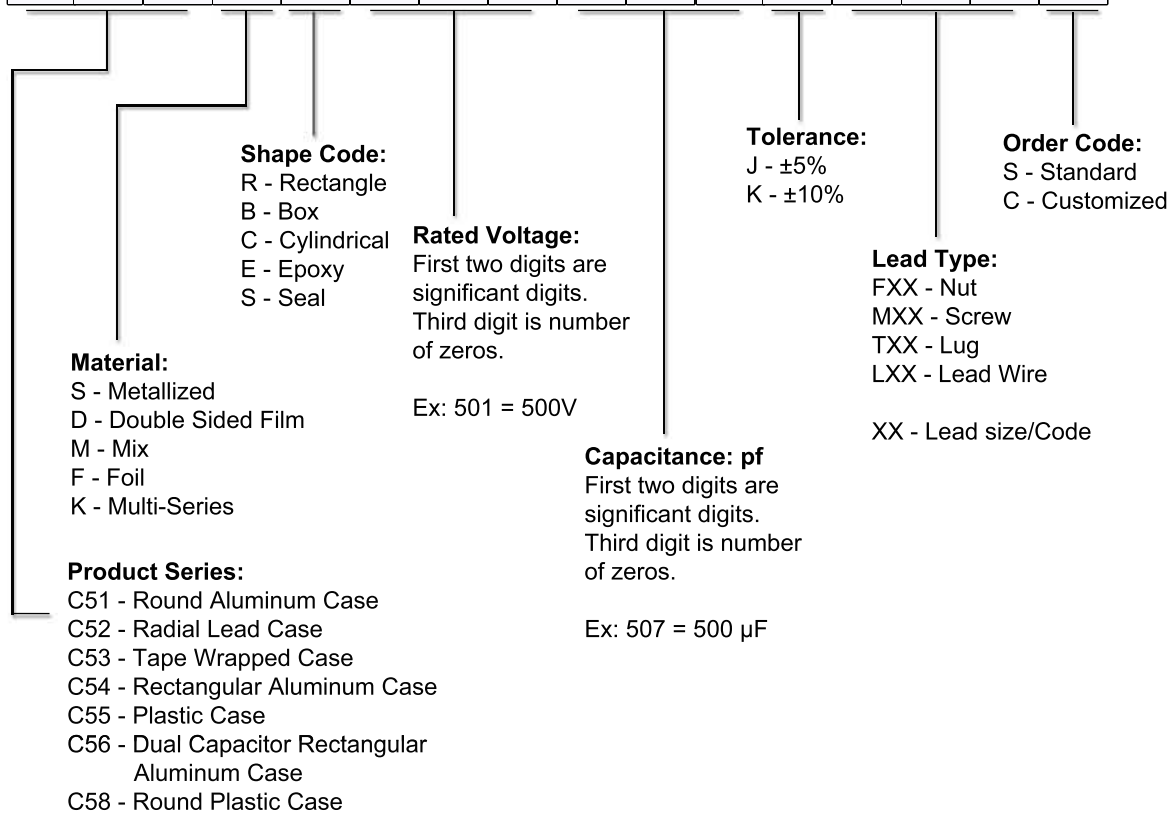
GB/T 17702, IEC 61071

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



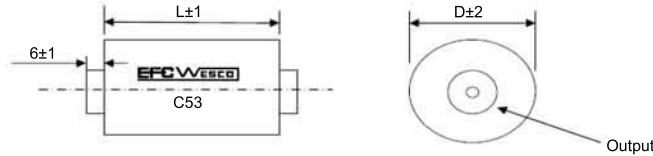


Please consult factory for special requirements, including non-standard values and sizes

C53

Tape Wrapped Case

DC Link Polypropylene Capacitors



Dimensions and Ratings

Cap.	600 VDC						
μF	Part #	Dimension (mm)		dv/dt V/μs	Irms Max A	ESR (mΩ)	Output
		L	D				
30	C53SC601306KF**#	40	45	45	27	1.8	M6
50	C53SC601506KF**#	50	50	32	30	2.0	M6
80	C53SC601806KF**#	50	62	32	40	1.5	M6
100	C53SC601107KF**#	60	60	22	35	2.0	M6
150	C53SC601157KF**#	60	75	22	48	1.5	M8
200	C53SC601207KF**#	110	60	10	35	3.0	M6
300	C53SC601307KF**#	110	72	10	48	2.1	M8

Cap.	800 VDC						
μF	Part #	Dimension (mm)		dv/dt V/μs	Irms Max A	ESR (mΩ)	Output
		L	D				
20	C53SC801206KF**#	40	44	65	25	2.0	M6
30	C53SC801306KF**#	50	46	40	25	2.4	M6
40	C53SC801406KF**#	50	52	40	30	2.0	M6
50	C53SC801506KF**#	50	59	40	35	1.6	M6
100	C53SC801107KF**#	60	72	30	45	1.8	M8
150	C53SC801157KF**#	110	62	14	35	3.0	M6
200	C53SC801207KF**#	110	71	14	45	2.5	M8

Cap.	1200 VDC						
μF	Part #	Dimension (mm)		dv/dt V/μs	Irms Max A	ESR (mΩ)	Output
		L	D				
15	C53SC122156KF**#	40	51	80	23	2.2	M6
25	C53SC122256KF**#	50	54	55	25	2.4	M6
40	C53SC122406KF**#	50	69	55	35	1.8	M6
50	C53SC122506KF**#	60	69	40	33	2.3	M6
80	C53SC122806KF**#	60	86	40	45	1.8	M8
100	C53SC122107KF**#	110	66	20	30	4.0	M6
150	C53SC122157KF**#	110	81	20	45	3.0	M8