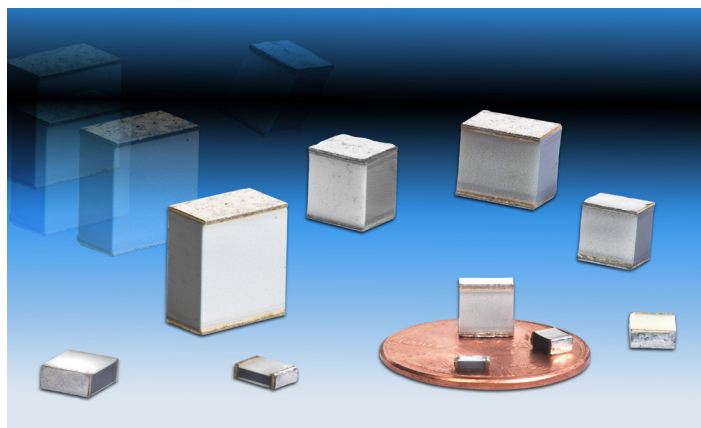


Type FCN Surface Mount Film Capacitors

Stable Stacked Metallized Film (PEN) Chips for Reflow Soldering



Type FCN SMT capacitors are the general purpose line of CDE's surface mount product offerings. They range in capacitance from .001 μF to 1.0 μF , and they are available in voltage ratings up to 400 Vdc.

Type FCN capacitors are designed for applications requiring a general purpose SMT capacitor with stable temperature and frequency characteristics similar to polyester film capacitors. They are ideal for applications such as EMI noise filtering, power supply input/output filters, audio or signal coupling, and IC power bus bypassing or decoupling. FCN SMT capacitors have a non-inductive stacked metallized PEN film construction which results in a low ESR and excellent high frequency performance.

Highlights

- Designed for reflow soldering
- Withstands 150% of rated voltage for 60 seconds
- Stacked metallized polyethylene naphthalate (PEN) film
- Performs like polyester capacitors
- Nonmagnetic and lead-free

Specifications

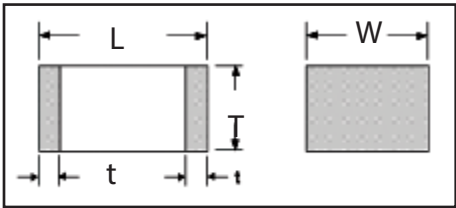
Capacitance Range	1000 pF to 1.0 μF (1kHz at ≤ 5 Vrms)
Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K) (See Ratings)
Rated Voltage	16, 50, 100, 250 & 400 Vdc
Dissipation Factor (Tan δ)	1.0% Max. (1 kHz at 5 Vrms)
Operating Temperature Range	16, 50, 100Vdc ($< 0.012 \mu\text{F}$); -55°C to $+105^\circ\text{C}$ 100 Vdc ($\geq 0.012 \mu\text{F}$), 250, 400 Vdc; -40°C to $+85^\circ\text{C}$
Surface Temperature	16 V & 50 V & 100 V $\leq 0.01 \mu\text{F}$: 240 $^\circ\text{C}$ max 100 V $\geq 0.012 \mu\text{F}$, 250 V & 400 V: 230 $^\circ\text{C}$ max
Insulation Resistance	C $> 0.33 \mu\text{F}$: IR = 1000 $\text{M}\Omega \cdot \mu\text{F}$ Min. C $\leq 0.33 \mu\text{F}$: IR $\geq 3000 \text{ M}\Omega$
Construction	Stacked metallized polyphenylene sulfide (PPS) film. Terminations are lead free with a Sn-Ag-Cu solder finish.
Withstand Voltage	16 V & 50 V, 100 V $\leq 0.01 \mu\text{F}$: 175% rated voltage, 5 s 100 V $\geq 0.012 \mu\text{F}$, 250 V and 400 V: 150% rated voltage, 5 s
Life Test	1000 h at rated temp. & 125% rated voltage Δ Capacitance: +1%, -6% max Dissipation Factor: 1.1% max IR: 1000 $\text{M}\Omega \cdot \text{min}$ (C $> 0.33 \mu\text{F}$, 300 $\text{M}\Omega \cdot \mu\text{F}$ min) No significant visual damage
Resistance to Soldering Heat	5 s at max capacitor surface temperature Δ Capacitance: $\pm 5\%$ max Dissipation Factor: 1.1% max IR: 1000 $\text{M}\Omega \cdot \text{min}$ (C $> 0.33 \mu\text{F}$, 300 $\text{M}\Omega \cdot \mu\text{F}$ min) Voltage withstanding: 1.5 times rated voltage, 1 min. No significant visual damage.
Moisture Resistance	500 h at 85 $^\circ\text{C}$ and 85% RH Δ Capacitance: $\pm 10\%$ max Dissipation Factor: 2% max IR: 10 $\text{M}\Omega \cdot \text{min}$ (C $> 0.33 \mu\text{F}$, 3 $\text{M}\Omega \cdot \mu\text{F}$ min) Voltage withstanding: 1.3 times rated voltage, 1 min. No significant damage
RoHS Compliant	

Type FCN Surface Mount Film Capacitors

Part Numbering System

FCN	1206	A	102	J	H2		Tape	Tape	Reel
Type	Case Size	Voltage	Capacitance	Tolerance	Packaging Code		Width (mm)	Diameter [in.(mm)]	Quantity
FCN	1206	C = 16 Vdc	102 = 0.001 µF	J = ±5%	K1	=	8	7 (178)	4000
	1913	H = 50 Vdc	223 = 0.022 µF	K = ±10%	J1, J2	=	8	7 (178)	3000
	2416	A = 100 Vdc	474 = 0.47 µF		H1, H2	=	8	7 (178)	3000
	2420	E = 250 Vdc			H3	=	8	7 (178)	2000
	2820	G = 400 Vdc			G1, G2, G3	=	8	7 (178)	2000
	3022				E1, E2	=	12	13 (330)	3000
	3925				E3, E4	=	12	13 (330)	2000
	3931				D1, D2	=	12	13 (330)	3000
	6031				D3, D4, D5	=	12	13 (330)	2000
	6040				B, Z	=	12	13 (330)	1500
					U, V, X, Y	=	16	13 (330)	1000
					S, T	=	24	13 (330)	750

Outline Drawing



t = 0.014 ± 0.008 in. (0.35 ± 0.2 mm)
For 0.001 µF – 0.01 µF, 100 V, t = 0.026 ± 0.012 in. (0.62 ± 0.3 mm)

Type FCN Surface Mount Film Capacitors

Ratings

Cap (μ F)	Catalog Part Number	L in (mm)		W in (mm)		T in (mm)	
16 Vdc							
0.120	FCN1913C124J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.150	FCN1913C154J-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.180	FCN1913C184J-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.220	FCN1913C224J-E4	0.189	(4.8)	0.130	(3.3)	0.094	(2.4)
0.270	FCN2416C274J-D1	0.236	(6.0)	0.161	(4.1)	0.071	(1.8)
0.330	FCN2416C334J-D2	0.236	(6.0)	0.161	(4.1)	0.079	(2.0)
0.390	FCN2416C394J-D3	0.236	(6.0)	0.161	(4.1)	0.094	(2.4)
0.470	FCN2416C474J-D4	0.236	(6.0)	0.161	(4.1)	0.110	(2.8)
50 Vdc							
0.056	FCN1913H563J-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.068	FCN1913H683J-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.082	FCN1913H823J-E4	0.189	(4.8)	0.130	(3.3)	0.094	(2.4)
0.100	FCN1913H104J-E3	0.189	(4.8)	0.130	(3.3)	0.110	(2.8)
0.120	FCN2416H124J-D1	0.236	(6.0)	0.161	(4.1)	0.071	(1.8)
0.150	FCN2416H154J-D2	0.236	(6.0)	0.161	(4.1)	0.079	(2.0)
0.180	FCN2416H184J-D3	0.236	(6.0)	0.161	(4.1)	0.094	(2.4)
0.220	FCN2416H224J-D4	0.236	(6.0)	0.161	(4.1)	0.110	(2.8)
100 Vdc							
0.001	FCN1206A102J-H2	0.126	(3.2)	0.063	(1.6)	0.043	(1.1)
0.001	FCN1206A122J-H2	0.126	(3.2)	0.063	(1.6)	0.043	(1.1)
0.002	FCN1206A152J-H2	0.126	(3.2)	0.063	(1.6)	0.043	(1.1)
0.002	FCN1206A182J-H2	0.126	(3.2)	0.063	(1.6)	0.043	(1.1)
0.002	FCN1206A222J-H2	0.126	(3.2)	0.063	(1.6)	0.043	(1.1)
0.003	FCN1206A272J-H2	0.126	(3.2)	0.063	(1.6)	0.043	(1.1)
0.003	FCN1206A332J-H3	0.126	(3.2)	0.063	(1.6)	0.059	(1.5)
0.004	FCN1206A392J-H3	0.126	(3.2)	0.063	(1.6)	0.059	(1.5)
0.005	FCN1206A472J-H3	0.126	(3.2)	0.063	(1.6)	0.059	(1.5)
0.006	FCN1210A562J-G2	0.126	(3.2)	0.098	(2.5)	0.059	(1.5)
0.007	FCN1210A682J-G2	0.126	(3.2)	0.098	(2.5)	0.059	(1.5)
0.008	FCN1210A822J-G3	0.126	(3.2)	0.098	(2.5)	0.083	(2.1)
0.010	FCN1210A103J-G3	0.126	(3.2)	0.098	(2.5)	0.083	(2.1)
0.012	FCN1913A123K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.015	FCN1913A153K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.018	FCN1913A183K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.022	FCN1913A223K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.027	FCN1913A273K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.033	FCN1913A333K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.039	FCN1913A393K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)

Type FCN Surface Mount Film Capacitors

Cap (μ F)	Catalog Part Number	L in (mm)		W in (mm)		T in (mm)	
100 Vdc							
0.047	FCN1913A473K-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.056	FCN1913A563K-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.068	FCN1913A683K-E4	0.189	(4.8)	0.130	(3.3)	0.094	(2.4)
0.082	FCN1913A823K-E3	0.189	(4.8)	0.130	(3.3)	0.110	(2.8)
0.100	FCN2416A104K-D1	0.236	(6.0)	0.161	(4.1)	0.071	(1.8)
0.120	FCN2416A124K-D3	0.236	(6.0)	0.161	(4.1)	0.094	(2.4)
0.150	FCN2416A154K-D4	0.236	(6.0)	0.161	(4.1)	0.110	(2.8)
0.180	FCN2820A184K-Z	0.280	(7.1)	0.197	(5.0)	0.079	(2.0)
0.220	FCN2820A224K-Z	0.280	(7.1)	0.197	(5.0)	0.094	(2.4)
0.270	FCN2820A274K-Z	0.280	(7.1)	0.197	(5.0)	0.114	(2.9)
0.330	FCN2820A334K-Z	0.280	(7.1)	0.197	(5.0)	0.138	(3.5)
0.390	FCN3022A394K-X	0.303	(7.7)	0.217	(5.5)	0.134	(3.4)
0.470	FCN3022A474K-X	0.303	(7.7)	0.217	(5.5)	0.157	(4.0)
0.560	FCN3925A564K-V	0.386	(9.8)	0.248	(6.3)	0.118	(3.0)
0.680	FCN3925A684K-V	0.386	(9.8)	0.248	(6.3)	0.142	(3.6)
0.820	FCN3925A824K-V	0.386	(9.8)	0.248	(6.3)	0.169	(4.3)
1.000	FCN3925A105K-V	0.386	(9.8)	0.248	(6.3)	0.201	(5.1)
250 Vdc							
0.001	FCN1913E102K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.001	FCN1913E122K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.002	FCN1913E152K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.002	FCN1913E182K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.002	FCN1913E222K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.003	FCN1913E272K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.003	FCN1913E332K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.004	FCN1913E392K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.005	FCN1913E472K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.006	FCN1913E562K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.007	FCN1913E682K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.008	FCN1913E822K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.010	FCN1913E103K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.012	FCN1913E123K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.015	FCN1913E153K-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.018	FCN1913E183K-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.022	FCN1913E223K-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.027	FCN1913E273K-E4	0.189	(4.8)	0.130	(3.3)	0.094	(2.4)
0.033	FCN1913E333K-E3	0.189	(4.8)	0.130	(3.3)	0.110	(2.8)
0.039	FCN2416E393K-D2	0.236	(6.0)	0.161	(4.1)	0.079	(2.0)
0.047	FCN2416E473K-D3	0.236	(6.0)	0.161	(4.1)	0.094	(2.4)
0.056	FCN2416E563K-D4	0.236	(6.0)	0.161	(4.1)	0.110	(2.8)
0.068	FCN2416E683K-D5	0.236	(6.0)	0.161	(4.1)	0.126	(3.2)
0.082	FCN2420E823K-B	0.236	(6.0)	0.197	(5.0)	0.126	(3.2)
0.100	FCN2420E104K-B	0.236	(6.0)	0.197	(5.0)	0.150	(3.8)

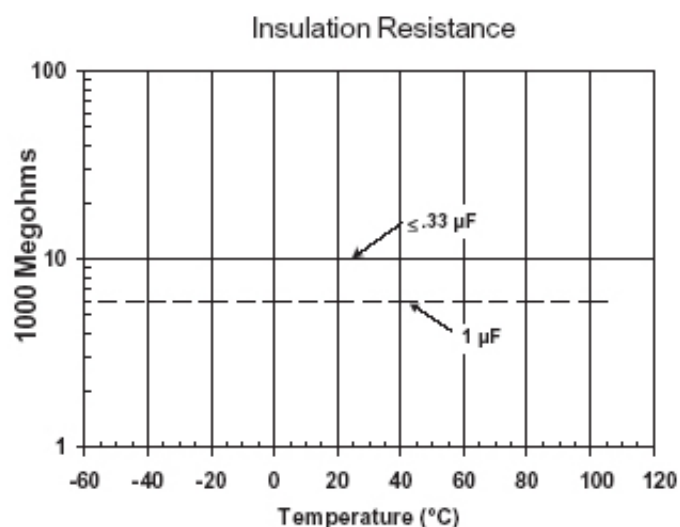
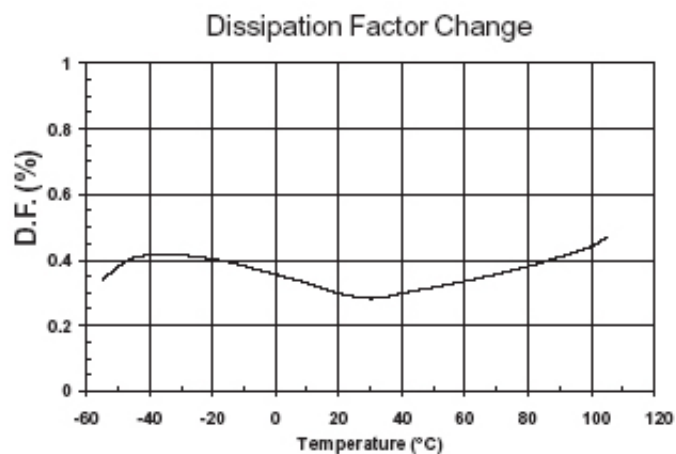
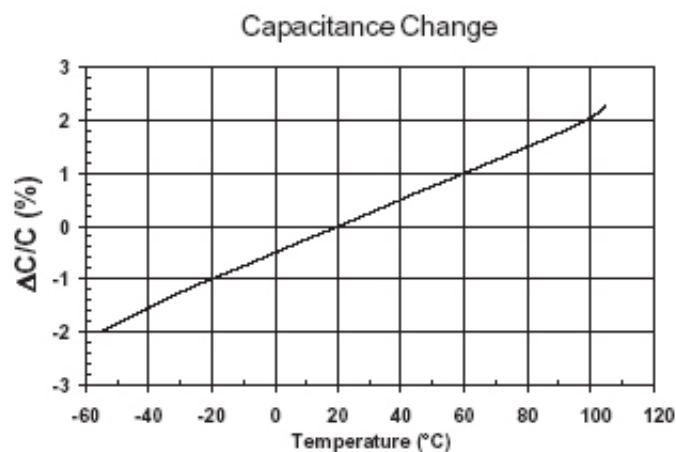
Type FCN Surface Mount Film Capacitors

Cap (μ F)	Catalog Part Number	L in (mm)		W in (mm)		T in (mm)	
250 Vdc							
0.120	FCN2420E124K-B*	0.236	(6.0)	0.197	(5.0)	0.177	(4.5)
0.150	FCN2825E154K-Y	0.280	(7.1)	0.248	(6.3)	0.138	(3.5)
0.180	FCN2825E184K-Y	0.280	(7.1)	0.248	(6.3)	0.161	(4.1)
0.220	FCN2825E224K-Y	0.280	(7.1)	0.248	(6.3)	0.201	(5.1)
0.270	FCN3925E274K-V	0.386	(9.8)	0.248	(6.3)	0.154	(3.9)
0.330	FCN3925E334K-V	0.386	(9.8)	0.248	(6.3)	0.189	(4.8)
0.390	FCN3931E394K-U	0.386	(9.8)	0.315	(8.0)	0.173	(4.4)
0.470	FCN3931E474K-U	0.386	(9.8)	0.315	(8.0)	0.209	(5.3)
0.56	FCN6031E564K-T	0.598	(15.2)	0.315	(8.0)	0.146	(3.7)
0.68	FCN6031E684K-T	0.598	(15.2)	0.315	(8.0)	0.173	(4.4)
0.82	FCN6040E824K-S	0.598	(15.2)	0.394	(10.0)	0.165	(4.2)
1.0	FCN6040E105K-S	0.598	(15.2)	0.394	(10.0)	0.201	(5.1)
400 Vdc							
0.001	FCN1913G102J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.001	FCN1913G122J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.002	FCN1913G152J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.002	FCN1913G182J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.002	FCN1913G222J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.003	FCN1913G272J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.003	FCN1913G332J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.004	FCN1913G392J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.005	FCN1913G472J-E1	0.189	(4.8)	0.130	(3.3)	0.055	(1.4)
0.006	FCN1913G562J-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.007	FCN1913G682J-E2	0.189	(4.8)	0.130	(3.3)	0.079	(2.0)
0.008	FCN1913G822J-E4	0.189	(4.8)	0.130	(3.3)	0.094	(2.4)
0.010	FCN1913G103J-E3	0.189	(4.8)	0.130	(3.3)	0.110	(2.8)
0.012	FCN2416G123J-D2	0.236	(6.0)	0.161	(4.1)	0.079	(2.0)
0.015	FCN2416G153J-D3	0.236	(6.0)	0.161	(4.1)	0.094	(2.4)
0.018	FCN2416G183J-D4	0.236	(6.0)	0.161	(4.1)	0.110	(2.8)
0.022	FCN2416G223J-D5	0.236	(6.0)	0.161	(4.1)	0.126	(3.2)
0.027	FCN2420G273J-B	0.236	(6.0)	0.197	(5.0)	0.118	(3.0)
0.033	FCN2420G333J-B	0.236	(6.0)	0.197	(5.0)	0.142	(3.6)
0.039	FCN2820G393J-Z	0.280	(7.1)	0.197	(5.0)	0.126	(3.2)
0.047	FCN2820G473J-Z	0.280	(7.1)	0.197	(5.0)	0.150	(3.8)
0.056	FCN2825G563J-Y	0.280	(7.1)	0.248	(6.3)	0.142	(3.6)
0.068	FCN2825G683J-Y	0.280	(7.1)	0.248	(6.3)	0.173	(4.4)
0.082	FCN3925G823J-V	0.386	(9.8)	0.248	(6.3)	0.134	(3.4)
0.100	FCN3925G104J-V	0.386	(9.8)	0.248	(6.3)	0.157	(4.0)
0.120	FCN3931G124J-U	0.386	(9.8)	0.315	(8.0)	0.150	(3.8)
0.150	FCN3931G154J-U	0.386	(9.8)	0.315	(8.0)	0.181	(4.6)

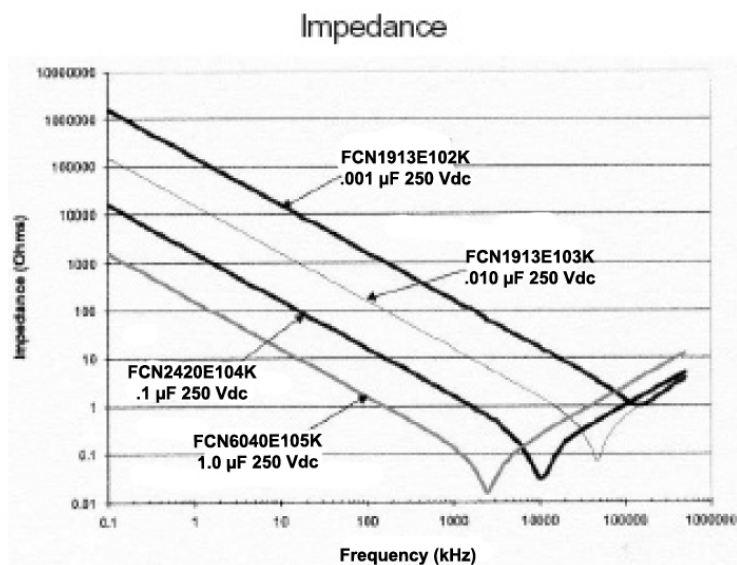
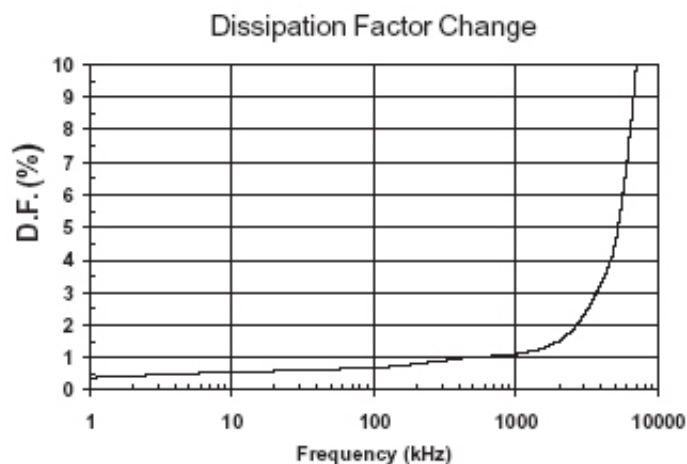
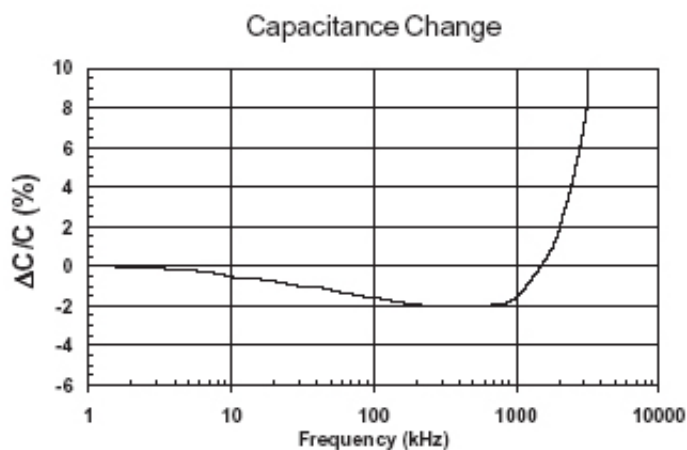
* also available in 5% (J) tolerance

Type FCN Surface Mount Film Capacitors

Typical Temperature Characteristics

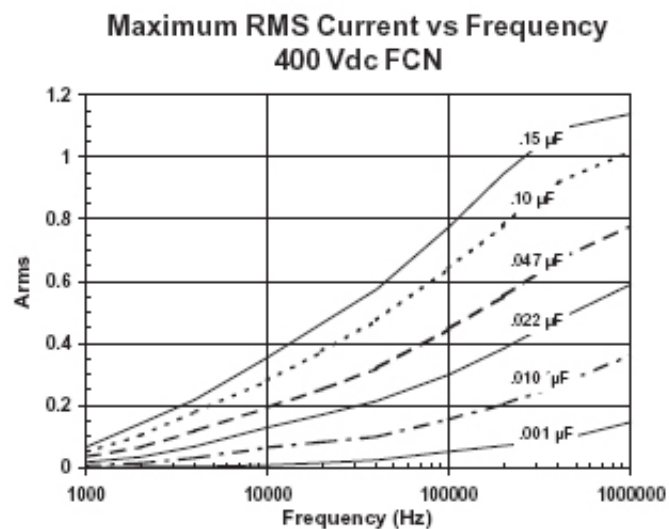
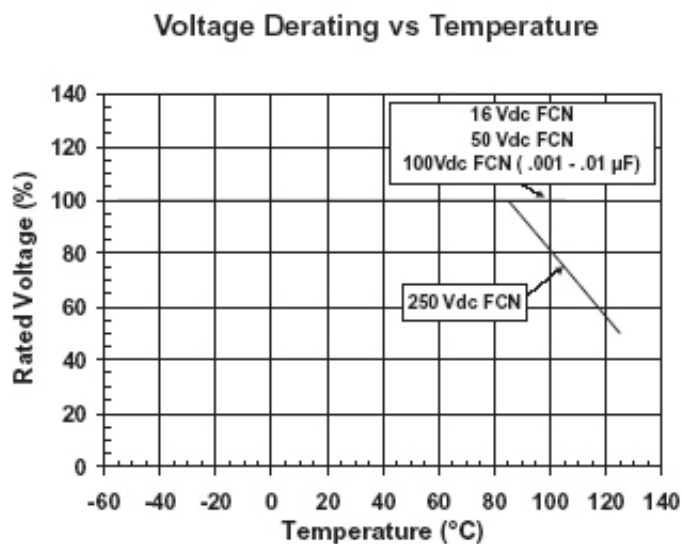
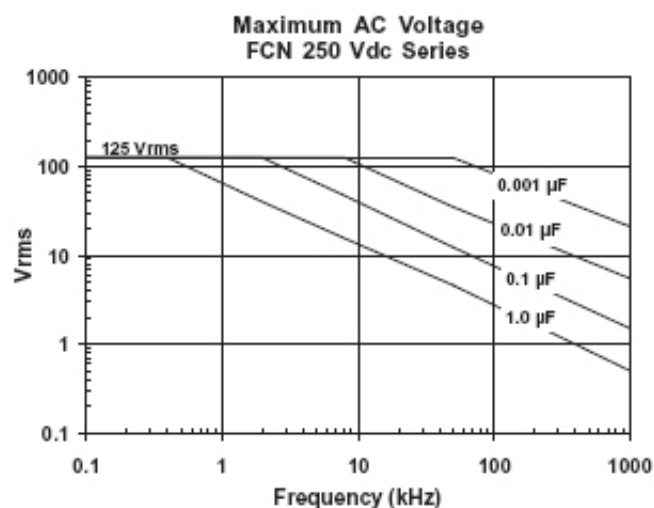
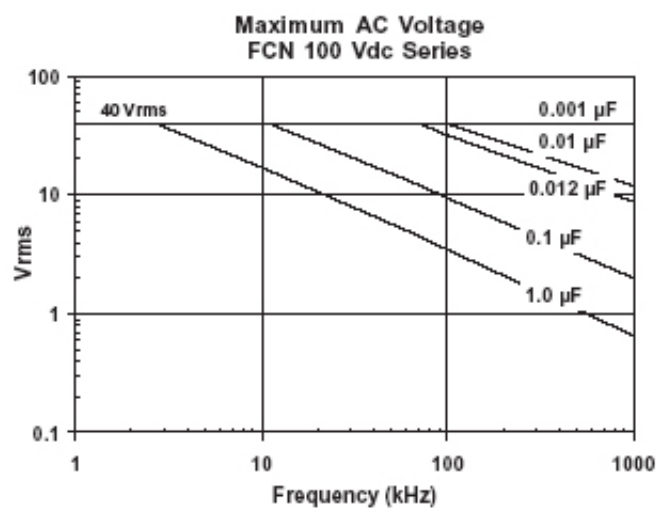
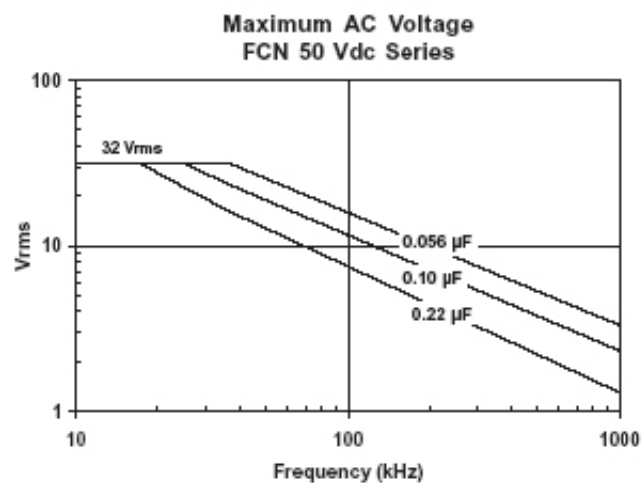
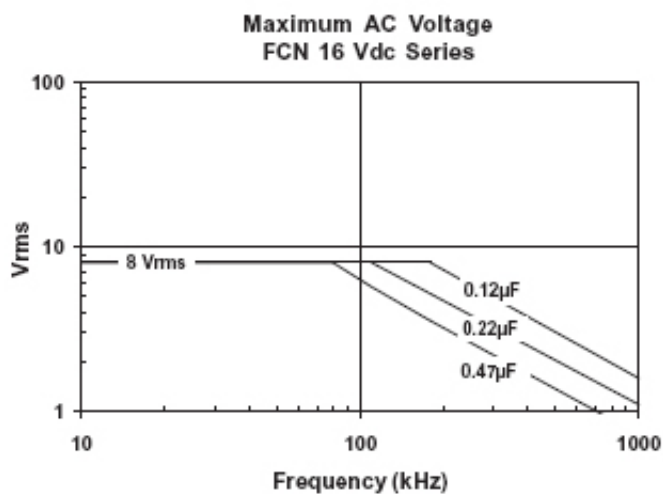


Typical Frequency Characteristics



Type FCN Surface Mount Film Capacitors

Vrms vs. Frequency Characteristics



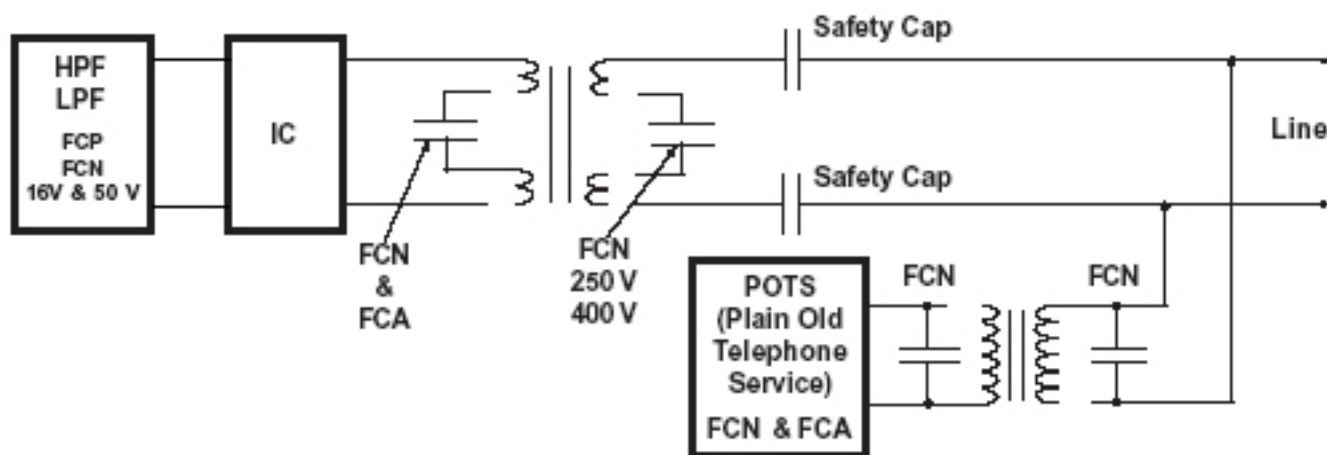
Type FCN Surface Mount Film Capacitors

Pulse Handling Capability

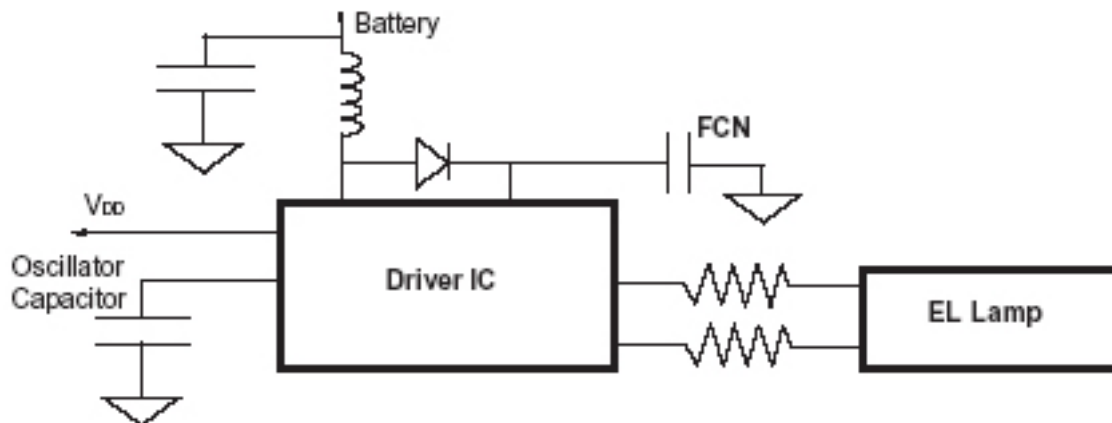
Capacitance (μF)	Voltage (Vdc)	dV/dt (volts/ μsec)	Capacitance (μF)	Voltage (Vdc)	dV/dt (volts/ μsec)	Capacitance (μF)	Voltage (Vdc)	dV/dt (volts/ μsec)
.12 - .22	16	60	.0039	100	530	.001 - .0039	250	615
.27 - .47	16	40	.0047	100	480	.0047 - .033	250	360
.056 - .10	50	190	.0056	100	450	.039 - .12	250	240
.12 - .22	50	130	.0068	100	410	.15 - .22	250	190
.001	100	1000	.0082	100	370	.27 - .47	250	115
.0012	100	920	.01	100	340	.56 - 1.0	250	65
.0015	100	830	.012 - .082	100	320	.001 - .0039	400	615
.0018	100	760	.10 - .15	100	210	.0047 - .01	400	360
.0022	100	690	.18 - .33	100	120	.012 - .033	400	240
.0027	100	630	.39 - .47	100	100	.039 - .068	400	190
.0033	100	570	.056 - 1.0	100	70	.082 - .15	400	115

Typical Applications

DC Blocking for xDSL



Integration for Electroluminescent (EL) Driver



With no piezoelectric effects to deal with, the SMT film capacitor will not create electrical noise in signal circuits or buzzing in power circuits.

Type FCN Surface Mount Film Capacitors

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