

Type PVC Polyester and Polypropylene Film/Foil Capacitors

Polyester Film/Foil (to 1000 V) and Polypropylene Film/Foil (1200 V - 2000 V)



The Type PVC is a sturdy film and extended foil construction ideal for bypass and coupling applications. Extended foil construction is as good as it gets for low DF and high current applications. The PVC is encapsulated in a rugged, flame retardant, epoxy coating with the leads crimped to provide secure seating on printed circuit boards.

Highlights

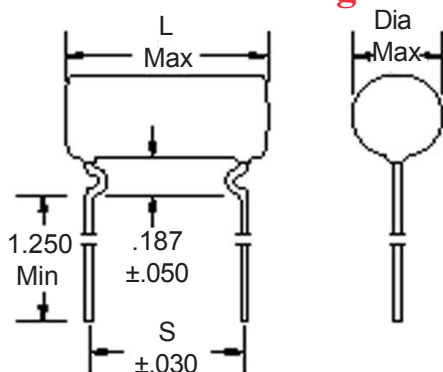
- ♦ Rugged epoxy case material meets UL94V0
- ♦ Film/foil polyester to 1000 Vdc
- ♦ Film/foil polypropylene - 1200 Vdc to 2000 Vdc
- ♦ Non-inductively wound
- ♦ Non-polar
- ♦ Crimped leads for secure PC board insertion

Specifications

Capacitance Range:	0.001 μ F to 1.0 μ F
Capacitance Tolerance:	$\pm 10\%$
Voltage Range:	Polyester: 100 Vdc to 1000 Vdc Polypropylene: 1200 Vdc to 2000 Vdc
Operating Temperature Range:	Polyester: -55°C to $+125^{\circ}\text{C}$ Polypropylene: -55°C to $+105^{\circ}\text{C}$ Full rated voltage up to 85°C . Derate linearly to 50% rated voltage at max temperature
Insulation Resistance (IR):	Polyester: 100,000 $\text{M}\Omega \cdot \mu\text{F}$ for $\leq 0.25 \mu\text{F}$, 25,000 $\text{M}\Omega \cdot \mu\text{F}$ for $\geq 0.25 \mu\text{F}$ Polypropylene: 400,000 $\text{M}\Omega$ for $\leq 0.50 \mu\text{F}$, 200,000 $\text{M}\Omega \cdot \mu\text{F}$ for $\geq 0.50 \mu\text{F}$ After 2 minutes at rated voltage or 500V whichever is less. $+25^{\circ}\text{C}$
Dissipation Factor (DF):	0.75% max for $<1200 \text{ V}$, 1.0% max for $\geq 1200 \text{ V}$. $+25^{\circ}\text{C}$
Dielectric Withstand Voltage:	250% rated voltage for $<1000 \text{ V}$, 200% rated voltage for $\geq 1000 \text{ V}$. 5 seconds, $+25^{\circ}\text{C}$
Life Test:	500 hours at $+85^{\circ}\text{C}$, 1.5 times rated DC voltage

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Capacitor Outline Drawing



Lead Pull Test

Capacitor leads shall withstand a steady pull of 5 pounds applied radially to the capacitor body for 1 minute

Lead Bend Test

Capacitor leads shall be bent without breakage below the lead crimp, first 90 ° in one direction, then back to the original position and then 90 ° in the opposite direction

Ratings

Catalog Part Number	Cap (µF)	Inches				Millimeters			
		L Max	Dia Max	S Lead Spacing	Ød	L Max	Dia Max	S Lead Spacing	Ød
100 Vdc / 70 Vac, 60 Hz									
PVC1118	0.018	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC1122	0.022	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC1127	0.027	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC1133	0.033	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC114	0.040	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC1147	0.047	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC1156	0.056	0.7	0.38	0.500	0.032	17.8	9.7	12.7	0.8
PVC1168	0.068	0.7	0.38	0.500	0.032	17.8	9.7	12.7	0.8
PVC1182	0.082	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC101	0.10	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC1015	0.15	0.9	0.45	0.688	0.032	22.9	11.4	17.5	0.8
PVC1022	0.22	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC1025	0.25	1.2	0.50	0.969	0.032	30.5	12.7	24.6	0.8
PVC1033	0.33	1.2	0.50	0.969	0.032	30.5	12.7	24.6	0.8
PVC1039	0.39	1.6	0.50	1.344	0.032	40.6	12.7	34.1	0.8
PVC1047	0.47	1.6	0.50	1.344	0.032	40.6	12.7	34.1	0.8
PVC105	0.50	1.6	0.60	1.344	0.032	40.6	15.2	34.1	0.8
PVC1056	0.56	1.6	0.60	1.344	0.032	40.6	15.2	34.1	0.8
PVC1068	0.68	1.6	0.60	1.344	0.032	40.6	15.2	34.1	0.8
PVC1082	0.82	1.6	0.65	1.344	0.032	40.6	16.5	34.1	0.8
PVC11	1.00	1.6	0.70	1.344	0.032	40.6	17.8	34.1	0.8
200 Vdc / 140 Vac, 60 Hz									
PVC211	0.010	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC2115	0.015	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC2118	0.018	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC212	0.020	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC2122	0.022	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC2133	0.033	0.9	0.38	0.688	0.032	22.9	9.7	17.5	0.8
PVC2139	0.039	0.9	0.38	0.688	0.032	22.9	9.7	17.5	0.8
PVC214	0.040	0.9	0.38	0.688	0.032	22.9	9.7	17.5	0.8
PVC2147	0.047	0.9	0.38	0.688	0.032	22.9	9.7	17.5	0.8
PVC215	0.050	0.9	0.38	0.688	0.032	22.9	9.7	17.5	0.8
PVC2156	0.056	1.2	0.38	0.969	0.032	30.5	9.7	24.6	0.8

Type PVC Polyester and Polypropylene Film/Foil Capacitors

Catalog Part Number	Cap (μF)	Inches				Millimeters			
		L Max	Dia Max	S Lead Spacing	Ød	L Max	Dia Max	S Lead Spacing	Ød
200 Vdc / 140 Vac, 60 Hz									
PVC2168	0.068	1.2	0.38	0.969	0.032	30.5	9.7	24.6	0.8
PVC2182	0.082	1.2	0.40	0.969	0.032	30.5	10.2	24.6	0.8
PVC201	0.10	1.2	0.40	0.969	0.032	30.5	10.2	24.6	0.8
PVC2015	0.15	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC2022	0.22	1.2	0.50	0.969	0.032	30.5	12.7	24.6	0.8
PVC2025	0.25	1.2	0.50	0.969	0.032	30.5	12.7	24.6	0.8
PVC2027	0.27	1.6	0.47	1.344	0.032	40.6	11.9	34.1	0.8
PVC2033	0.33	1.6	0.47	1.344	0.032	40.6	11.9	34.1	0.8
PVC2047	0.47	1.6	0.56	1.344	0.032	40.6	14.2	34.1	0.8
PVC205	0.50	1.6	0.56	1.344	0.032	40.6	14.2	34.1	0.8
400 Vdc / 200 Vac, 60 Hz									
PVC421	0.0010	0.7	0.30	0.500	0.032	17.8	7.6	12.7	0.8
PVC4222	0.0022	0.7	0.30	0.500	0.032	17.8	7.6	12.7	0.8
PVC4233	0.0033	0.7	0.30	0.500	0.032	17.8	7.6	12.7	0.8
PVC4247	0.0047	0.7	0.30	0.500	0.032	17.8	7.6	12.7	0.8
PVC4268	0.0068	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC411	0.010	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC412	0.020	0.9	0.39	0.688	0.032	22.9	9.9	17.5	0.8
PVC4133	0.033	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC4147	0.047	1.2	0.40	0.969	0.032	30.5	10.2	24.6	0.8
PVC415	0.050	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC4156	0.056	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC4168	0.068	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC4182	0.082	1.2	0.52	0.969	0.032	30.5	13.2	24.6	0.8
PVC401	0.10	1.2	0.53	0.969	0.032	30.5	13.5	24.6	0.8
PVC4015	0.15	1.2	0.57	0.969	0.032	30.5	14.5	24.6	0.8
PVC4018	0.18	1.6	0.60	1.344	0.032	40.6	15.2	34.1	0.8
PVC4022	0.22	1.6	0.60	1.344	0.032	40.6	15.2	34.1	0.8
PVC4025	0.25	1.6	0.65	1.344	0.032	40.6	16.5	34.1	0.8
PVC4033	0.33	1.6	0.65	1.344	0.032	40.6	16.5	34.1	0.8
PVC4039	0.39	1.6	0.72	1.344	0.032	40.6	18.3	34.1	0.8
PVC4047	0.47	1.6	0.80	1.344	0.032	40.6	20.3	34.1	0.8
600 Vdc / 200 Vac, 60 Hz									
PVC621	0.0010	0.7	0.30	0.500	0.032	17.8	7.6	12.7	0.8
PVC6212	0.0012	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC6215	0.0015	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC6218	0.0018	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC622	0.0020	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC6222	0.0022	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC6225	0.0025	0.7	0.34	0.500	0.032	17.8	8.6	12.7	0.8
PVC6227	0.0027	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC623	0.0030	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC6233	0.0033	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC6239	0.0039	0.7	0.38	0.500	0.032	17.8	9.7	12.7	0.8
PVC624	0.0040	0.7	0.38	0.500	0.032	17.8	9.7	12.7	0.8
PVC6247	0.0047	0.7	0.38	0.500	0.032	17.8	9.7	12.7	0.8
PVC625	0.0050	0.7	0.38	0.500	0.032	17.8	9.7	12.7	0.8
PVC6256	0.0056	0.7	0.40	0.500	0.032	17.8	10.2	12.7	0.8

Type PVC Polyester and Polypropylene Film/Foil Capacitors

Catalog Part Number	Cap (μF)	Inches				Millimeters			
		L Max	Dia Max	S Lead Spacing	Ød	L Max	Dia Max	S Lead Spacing	Ød
600 Vdc / 200 Vac, 60 Hz									
PVC626	0.0060	0.7	0.40	0.500	0.032	17.8	10.2	12.7	0.8
PVC6268	0.0068	0.7	0.40	0.500	0.032	17.8	10.2	12.7	0.8
PVC6275	0.0075	0.7	0.40	0.500	0.032	17.8	10.2	12.7	0.8
PVC628	0.0080	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC6282	0.0082	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC611	0.010	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC6112	0.012	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC6115	0.015	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC6118	0.018	0.9	0.45	0.688	0.032	22.9	11.4	17.5	0.8
PVC612	0.020	0.9	0.45	0.688	0.032	22.9	11.4	17.5	0.8
PVC6122	0.022	0.9	0.45	0.688	0.032	22.9	11.4	17.5	0.8
PVC6125	0.025	0.9	0.45	0.688	0.032	22.9	11.4	17.5	0.8
PVC6127	0.027	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC613	0.030	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC6133	0.033	1.2	0.45	0.969	0.032	30.5	11.4	24.6	0.8
PVC6139	0.039	1.2	0.56	0.969	0.032	30.5	14.2	24.6	0.8
PVC614	0.040	1.2	0.56	0.969	0.032	30.5	14.2	24.6	0.8
PVC6147	0.047	1.2	0.56	0.969	0.032	30.5	14.2	24.6	0.8
PVC615	0.050	1.2	0.56	0.969	0.032	30.5	14.2	24.6	0.8
PVC6156	0.056	1.2	0.60	0.969	0.032	30.5	15.2	24.6	0.8
PVC6168	0.068	1.2	0.60	0.969	0.032	30.5	15.2	24.6	0.8
PVC6182	0.082	1.2	0.65	0.969	0.032	30.5	16.5	24.6	0.8
PVC601	0.10	1.2	0.65	0.969	0.032	30.5	16.5	24.6	0.8
PVC6012	0.12	1.6	0.70	1.344	0.032	40.6	17.8	34.1	0.8
PVC6015	0.15	1.6	0.70	1.344	0.032	40.6	17.8	34.1	0.8
PVC6018	0.18	1.6	0.80	1.344	0.032	40.6	20.3	34.1	0.8
PVC602	0.20	1.6	0.80	1.344	0.032	40.6	20.3	34.1	0.8
PVC6022	0.22	1.6	0.80	1.344	0.032	40.6	20.3	34.1	0.8
PVC6025	0.25	1.6	0.80	1.344	0.032	40.6	20.3	34.1	0.8
PVC6033	0.33	1.81	0.89	1.531	0.032	46.0	22.6	38.9	0.8
1000 Vdc / 200 Vac, 60 Hz									
PVC1021	0.0010	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC10215	0.0015	0.7	0.33	0.500	0.032	17.8	8.4	12.7	0.8
PVC10218	0.0018	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC10222	0.0022	0.7	0.35	0.500	0.032	17.8	8.9	12.7	0.8
PVC10233	0.0033	0.9	0.35	0.688	0.032	22.9	8.9	17.5	0.8
PVC10247	0.0047	0.9	0.40	0.688	0.032	22.9	10.2	17.5	0.8
PVC10256	0.0056	0.9	0.43	0.688	0.032	22.9	10.9	17.5	0.8
PVC10268	0.0068	0.9	0.43	0.688	0.032	22.9	10.9	17.5	0.8
PVC10282	0.0082	0.9	0.48	0.688	0.032	22.9	12.2	17.5	0.8
PVC1011	0.010	0.9	0.48	0.688	0.032	22.9	12.2	17.5	0.8
PVC10115	0.015	1.2	0.48	0.969	0.032	30.5	12.2	24.6	0.8
PVC10118	0.018	1.2	0.58	0.969	0.032	30.5	14.7	24.6	0.8
PVC10122	0.022	1.2	0.58	0.969	0.032	30.5	14.7	24.6	0.8
PVC10127	0.027	1.2	0.65	0.969	0.032	30.5	16.5	24.6	0.8
PVC10133	0.033	1.2	0.65	0.969	0.032	30.5	16.5	24.6	0.8

Type PVC Polyester and Polypropylene Film/Foil Capacitors

Catalog Part Number	Cap (μF)	Inches				Millimeters			
		L Max	Dia Max	S Lead Spacing	Ød	L Max	Dia Max	S Lead Spacing	Ød
1000 Vdc / 200 Vac, 60 Hz									
PVC10139	0.039	1.6	0.65	1.344	0.032	40.6	16.5	34.1	0.8
PVC10147	0.047	1.6	0.65	1.344	0.032	40.6	16.5	34.1	0.8
PVC10156	0.056	1.6	0.75	1.344	0.032	40.6	19.1	34.1	0.8
PVC10168	0.068	1.6	0.75	1.344	0.032	40.6	19.1	34.1	0.8
PVC10182	0.082	1.6	0.85	1.344	0.032	40.6	21.6	34.1	0.8
PVC10010	0.100	1.6	0.85	1.344	0.032	40.6	21.6	34.1	0.8
1200 Vdc / 475 Vac, 60 Hz									
PVC1221	0.0010	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12212	0.0012	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12215	0.0015	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12218	0.0018	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12222	0.0022	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12227	0.0027	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12233	0.0033	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12239	0.0039	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12247	0.0047	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC12256	0.0056	1.25	0.44	0.969	0.032	31.8	11.2	24.6	0.8
PVC12268	0.0068	1.25	0.47	0.969	0.032	31.8	11.9	24.6	0.8
PVC12282	0.0082	1.25	0.50	0.969	0.032	31.8	12.7	24.6	0.8
PVC1211	0.010	1.25	0.53	0.969	0.032	31.8	13.5	24.6	0.8
PVC12112	0.012	1.25	0.57	0.969	0.032	31.8	14.5	24.6	0.8
PVC12115	0.015	1.25	0.61	0.969	0.032	31.8	15.5	24.6	0.8
PVC12118	0.018	1.65	0.56	1.344	0.032	41.9	14.2	34.1	0.8
PVC12122	0.022	1.65	0.60	1.344	0.032	41.9	15.2	34.1	0.8
PVC12127	0.027	1.65	0.65	1.344	0.032	41.9	16.5	34.1	0.8
PVC12133	0.033	1.65	0.70	1.344	0.032	41.9	17.8	34.1	0.8
PVC12139	0.039	1.65	0.74	1.344	0.032	41.9	18.8	34.1	0.8
PVC12147	0.047	1.65	0.80	1.344	0.032	41.9	20.3	34.1	0.8
1600 Vdc / 475 Vac, 60 Hz									
PVC1621	0.0010	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC16215	0.0015	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC16222	0.0022	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC16227	0.0027	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC1623	0.0030	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC16233	0.0033	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC1624	0.0040	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC16247	0.0047	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC1625	0.0050	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC1626	0.0060	1.25	0.44	0.969	0.032	31.8	11.2	24.6	0.8
PVC16268	0.0068	1.25	0.47	0.969	0.032	31.8	11.9	24.6	0.8
PVC1627	0.0070	1.25	0.50	0.969	0.032	31.8	12.7	24.6	0.8
PVC16275	0.0075	1.25	0.50	0.969	0.032	31.8	12.7	24.6	0.8
PVC1628	0.0080	1.25	0.50	0.969	0.032	31.8	12.7	24.6	0.8
PVC16282	0.0082	1.25	0.50	0.969	0.032	31.8	12.7	24.6	0.8

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Catalog Part Number	Cap (μ F)	Inches				Millimeters			
		L Max	Dia Max	S Lead Spacing	$\varnothing$ d	L Max	Dia Max	S Lead Spacing	$\varnothing$ d
1600 Vdc / 475 Vac, 60 Hz									
PVC1611	0.010	1.25	0.53	0.969	0.032	31.8	13.5	24.6	0.8
PVC16115	0.015	1.25	0.61	1.344	0.032	33.8	15.5	34.1	0.8
PVC1612	0.020	1.65	0.60	1.344	0.032	41.9	15.2	34.1	0.8
PVC16122	0.022	1.65	0.60	1.344	0.032	41.9	15.2	34.1	0.8
PVC16133	0.033	1.65	0.70	1.344	0.032	41.9	17.8	34.1	0.8
PVC16147	0.047	1.65	0.80	1.344	0.032	41.9	20.3	34.1	0.8
PVC1615	0.050	1.65	0.85	1.344	0.032	41.9	21.6	34.1	0.8
2000 Vdc / 500 Vac, 60 Hz									
PVC2X21	0.0010	1.25	0.33	0.969	0.032	31.8	8.4	24.6	0.8
PVC2X212	0.0012	1.25	0.34	0.969	0.032	31.8	8.6	24.6	0.8
PVC2X215	0.0015	1.25	0.36	0.969	0.032	31.8	9.1	24.6	0.8
PVC2X218	0.0018	1.25	0.38	0.969	0.032	31.8	9.7	24.6	0.8
PVC2X222	0.0022	1.25	0.39	0.969	0.032	31.8	9.9	24.6	0.8
PVC2X227	0.0027	1.25	0.42	0.969	0.032	31.8	10.7	24.6	0.8
PVC2X233	0.0033	1.25	0.44	0.969	0.032	31.8	11.2	24.6	0.8
PVC2X239	0.0039	1.25	0.47	0.969	0.032	31.8	11.9	24.6	0.8
PVC2X247	0.0047	1.25	0.5	0.969	0.032	31.8	12.7	24.6	0.8
PVC2X256	0.0056	1.25	0.53	0.969	0.032	31.8	13.5	24.6	0.8
PVC2X268	0.0068	1.25	0.56	0.969	0.032	31.8	14.2	24.6	0.8
PVC2X282	0.0082	1.25	0.60	0.969	0.032	31.8	15.2	24.6	0.8
PVC2X11	0.0100	1.25	0.65	0.969	0.032	31.8	16.5	24.6	0.8
PVC2X112	0.0120	1.65	0.58	1.344	0.032	41.9	14.7	34.1	0.8
PVC2X115	0.0150	1.65	0.63	1.344	0.032	41.9	16.0	34.1	0.8
PVC2X118	0.018	1.65	0.67	1.344	0.032	41.9	17.0	34.1	0.8
PVC2X122	0.022	1.65	0.73	1.344	0.032	41.9	18.5	34.1	0.8
PVC2X127	0.027	1.65	0.78	1.344	0.032	41.9	19.8	34.1	0.8
PVC2X133	0.033	1.65	0.85	1.344	0.032	41.9	21.6	34.1	0.8

Part Numbering System

PVC	4	01
Series	Voltage	Capacitance
PVC	1 = 100 V	21 = .001 μ F
	2 = 200V	11 = .01 μ F
	4 = 400V	01 = .1 μ F
	6 = 600V	1 = 1.0 μ F
	10 = 1000 V	
	12 = 1200 V	
	16 = 1600 V	
	2X = 2000 V	