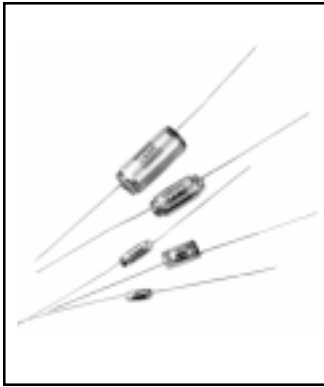


# SX Series Polystyrene-Foil / Axial Leads



- Axial Leads
- High Q and Excellent Stability
- High Insulation, Low Absorption
- Low Dissipation Factor, Tight Temperature Coefficient
- Lead Material  
Solder Coated or Tinned  
Solid Wire

## GENERAL SPECIFICATIONS

Operating Temperature:  
-40° C to +70° C  
(Derate 0.67% per °C  
above 40° C)

Voltage Range:  
40° C - 33 VDC to 630 VDC  
70° C - 25 VDC to 500 VDC

Capacitance Range:  
20 pF to .027 μF

Tolerance Range:  
±2.5%, ±5.0%, ±10.0%

Total Self Inductance:  
Body: 10 to 30 nH, function of  
the body length  
Leads: 10 nH/cm of length

Dielectric Withstand Voltage:  
2.5 x Rated Voltage for 5 seconds  
Charge and discharge  
current ≤ 50 mA

Dissipation Factor (DF):  
Shall not be > .05%

Ideally suited for precision  
circuits such as sample and  
hold, dual Slope Integration  
and Temperature Compensation

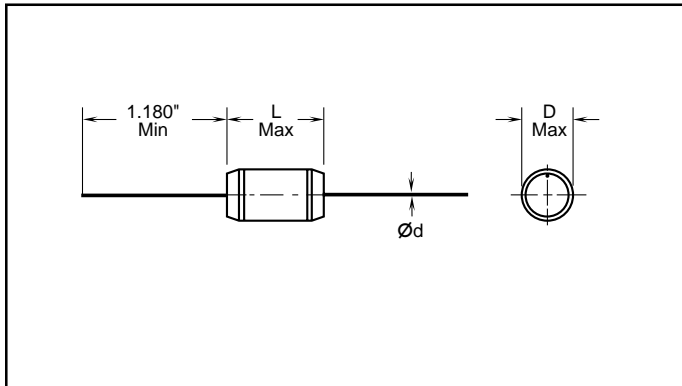
## Temperature Coefficient

<b>For 33 VDC:</b>	
-125 ± 75 PPM/°C	
<b>For 63, 160, 630 VDC</b>	
Capacitance Values ≤ 500 pF	-175 ± 75 PPM/°C
Capacitance Values > 500 pF	-125 ± 75 PPM/°C

## Specifications

<p><b>Insulation Resistance (IR)</b> Shall be less than: 50,000 MΩ or 1000/C (MΩ) (C in MFD) whichever is lower for 33 VDC at 10 VDC 100,000 MΩ or 2000/C (MΩ) (C in MFD) whichever is lower for 63 VDC at 10 VDC 500,000 MΩ or 10,000/C (MΩ) (C in MFD) whichever is lower for 160 to 630 VDC at 100 VDC</p>
<p><b>Dielectric Absorption:</b> Equal to or less than .02%</p>
<p><b>Capacitance Drift:</b> Equal to or less than ± 0.3% + 0.4 pF after thermal cycle from +25°C to -25°C to +70°C and back to +25°C</p>
<p><b>Storage:</b> ΔC/C ≤ ± 0.5% + .4pF for SXK, SXL ΔC/C ≤ ± 0.2% + .4pF for SXM, SX When stored in constant climate ≤ 70% RH within operating temperature range and stabilized at 40% RH 25°C ± 5°C for 24 hours before measurements</p>
<p><b>Life Test:</b> 125% of rated voltage for 250 hrs at 70°C</p>
<p><b>Soldering Conditions:</b> Not recommended for wave soldering For manual soldering: Solder Temperature: 270°C Time: 4 seconds maximum Distance from body: .236 inches minimum</p> <p><b>Caution:</b> Exposure to temperatures &gt; 70°C will result in serious degradation Clean with de-ionized water only. Do not expose to solvents.</p>

## Outline Dimensions



# SX Series Polystyrene-Foil / Axial Leads



Film Capacitors

Old Catalog Number	Cap pF	% Tol.	Millimeters			New Catalog Number	% Tol.	Millimeters		
			D Max.	L Max.	Ød			D Max.	L Max.	Ød
<b>33 WVDC @ +40°C</b>										
<b>25 WVDC @ +70°C</b>										

Old Catalog Number	Cap pF	% Tol.	Millimeters			New Catalog Number	% Tol.	Millimeters		
			D Max.	L Max.	Ød			D Max.	L Max.	Ød
<b>63 WVDC @ +40°C</b>										
<b>50 WVDC @ +70°C</b>										

SXK310	100	2.5	4.6	8.0	.3	SXK310A	5.0	5.5	12.0	.4
SXK312	120	2.5	4.6	8.0	.3	SXK312A	5.0	5.5	12.0	.4
SXK318	180	2.5	4.6	8.0	.3	SXK318A	5.0	5.5	12.0	.4
SXK322	220	2.5	4.6	8.0	.3	SXK322A	5.0	5.5	12.0	.4
SXK327	270	2.5	4.6	8.0	.3	SXK327A	5.0	5.5	12.0	.4
SXK333	330	2.5	4.6	8.0	.3	SXK333A	5.0	5.5	12.0	.4
SXK339	390	2.5	4.6	8.0	.3	SXK339A	5.0	5.5	12.0	.4
SXK347	470	2.5	4.6	8.0	.3	SXK347A	2.5	5.5	12.0	.4
SXK356	560	2.5	4.6	8.0	.3	SXK356A	2.5	5.5	12.0	.4
SXK368	680	2.5	4.6	8.0	.3	SXK368A	2.5	5.5	12.0	.4
SXK382	820	2.5	4.6	8.0	.3	SXK382A	2.5	6.0	12.0	.4
SXK210	1000	2.5	4.6	8.0	.3	SXK210A	2.5	6.0	12.0	.4
SXK212	1200	2.5	6.6	12.0	.4	SXK212A	2.5	7.0	12.0	.4
SXK215	1500	2.5	6.6	12.0	.4	SXK215A	2.5	7.0	12.0	.4
SXK218	1800	2.5	6.6	12.0	.4	SXK218A	2.5	7.0	12.0	.4
SXK222	2200	2.5	6.6	12.0	.4	SXK222A	2.5	7.0	12.0	.4
SXK227	2700	2.5	6.6	12.0	.4	SXK227A	2.5	7.0	12.0	.4
SXK233	3300	2.5	6.6	12.0	.4	SXK233A	2.5	7.0	12.0	.4
SXK239	3900	2.5	6.6	12.0	.4	SXK239A	2.5	7.5	12.0	.4
SXK247	4700	2.5	6.6	12.0	.4	SXK247A	2.5	8.0	12.0	.4
SXK256	5600	2.5	11.9	17.0	.5	SXK256A	2.5	10.0	12.0	.4
SXK268	6800	2.5	11.9	17.0	.5	SXK268A	2.5	10.0	15.0	.4
SXK282	8200	2.5	11.9	17.0	.5	SXK282A	2.5	11.0	15.0	.4
SXK110	10,000	2.5	11.9	17.0	.5	SXK110A	2.5	11.0	15.0	.4
SXK112	12,000	2.5	11.9	17.0	.5	<b>Not Available</b>				
SXK115	15,000	2.5	11.9	17.0	.5	<b>Not Available</b>				
SXK118	18,000	2.5	11.9	17.0	.5	SXK118A	2.5	12.0	17.0	.5
SXK122	22,000	2.5	11.9	17.0	.5	SXK122A	2.5	12.0	17.0	.5
SXK125	25,000	2.5	11.9	17.0	.5	<b>Not Available</b>				
SXK127	27,000	2.5	11.9	17.0	.5	SXK127A	2.5	12.0	17.0	.5
SXK133	33,000	2.5	18.0	22.0	.5	<b>Not Available</b>				
SXK139	39,000	2.5	18.0	22.0	.5	<b>Not Available</b>				
SXK147	47,000	2.5	18.0	22.0	.5	<b>Not Available</b>				
SXK156	56,000	2.5	18.0	22.0	.5	<b>Not Available</b>				
SXK168	68,000	2.5	18.0	22.0	.5	<b>Not Available</b>				
SXK182	82,000	2.5	18.0	22.0	.5	<b>Not Available</b>				
SXK010	.1µF	2.5	18.0	22.0	.5	<b>Not Available</b>				

SXL482	82	2.5	4.8	8.0	.3	<b>Not Available</b>				
SXL310	100	2.5	4.8	8.0	.3	SXL310A	5.0	6.0	12.0	.4
SXL315	150	2.5	4.8	8.0	.3	SXL315A	5.0	6.0	12.0	.4
SXL318	180	2.5	4.8	8.0	.3	SXL318A	5.0	5.5	12.0	.4
SXL322	220	2.5	4.8	8.0	.3	SXL322A	5.0	5.5	12.0	.4
SXL327	270	2.5	4.8	8.0	.3	SXL327A	5.0	5.5	12.0	.4
SXL333	330	2.5	4.8	8.0	.3	SXL333A	5.0	5.5	12.0	.4
SXL347	470	2.5	4.8	8.0	.3	SXL347A	2.5	5.5	12.0	.4
SXL356	560	2.5	4.8	8.0	.3	SXL356A	2.5	5.5	12.0	.4
SXL368	680	2.5	4.8	8.0	.3	SXL368A	2.5	5.5	12.0	.4
SXL210	1000	2.5	8.4	12.0	.3	SXL210A	2.5	6.0	12.0	.4
SXL212	1200	2.5	8.4	12.0	.4	SXL212A	2.5	7.0	12.0	.4
SXL215	1500	2.5	8.4	12.0	.4	SXL215A	2.5	7.0	12.0	.4
SXL218	1800	2.5	8.4	12.0	.4	SXL218A	2.5	7.0	12.0	.4
SXL222	2200	2.5	8.4	12.0	.4	SXL222A	2.5	7.0	12.0	.4
SXL227	2700	2.5	8.4	12.0	.4	SXL227A	2.5	7.0	12.0	.4
SXL233	3300	2.5	8.4	12.0	.4	SXL233A	2.5	7.0	12.0	.4
SXL239	3900	2.5	8.4	12.0	.4	SXL239A	2.5	7.5	12.0	.4
SXL247	4700	2.5	8.4	12.0	.4	SXL247A	2.5	10.0	12.0	.4
SXL256	5600	2.5	8.6	17.0	.5	SXL256A	2.5	10.0	12.0	.4
SXL268	6800	2.5	8.6	17.0	.5	SXL268A	2.5	10.0	15.0	.4
SXL282	8200	2.5	8.6	17.0	.5	SXL282A	2.5	11.0	15.0	.4
SXL110	10,000	2.5	8.6	17.0	.5	SXL110A	2.5	11.0	15.0	.4
SXL112	12,000	2.5	10.9	22.0	.5	<b>Not Available</b>				
SXL115	15,000	2.5	10.9	22.0	.5	SXL115A	2.5	2.0	17.0	.5
SXL116	16,000	2.5	10.9	22.0	.5	<b>Not Available</b>				
SXL120	20,000	2.5	10.9	22.0	.5	<b>Not Available</b>				
SXL122	22,000	2.5	10.9	22.0	.5	<b>Not Available</b>				

