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

The colored band at one side of the body serves as a color guide for rated voltage, and indicates the lead attached to the outside foil.

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 0.1 μ F Capacitance Tolerance: ±2.5% (SXK, SXL, SXM)

±5.0% (SX)

Caution:

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

Dielectric Withstand: 2.5 x V rated 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 Specifications For 33 VDC: Insulation Resistance (IR) Shall be less than: -125 ± 75 PPM/°C 50,000 MΩ or 1000/C (MΩ) (C in MFD) whichever is lower for 33 VDC at 10 VDC For 63, 160, 630 VDC 100,000 MΩ or 2000/C (MΩ) (C in MFD) whichever is lower for 63 VDC at 10 VDC Capacitance Values ≤ 500 pF -175 ± 75 PPM/°C 500,000 M Ω or 10,000/C (M Ω) (C in MFD) whichever is Capacitance Values > 500 PF -125 ± 75 PPM/°C lower for 160 to 630 VDC at 100 VDC **Dielectric Absorbtion:** Equal to or less than .02% **Capacitance Drift:** Equal to or less than $\pm 0.3\% + 0.4$ pF after thermal cycle from +25°C to -25°C to +70°C and back to +25°C **Outline Dimensions** Storage: $\Delta C/C \le \pm 0.5\% + .4pF$ for SXK, SXL $\Delta C/C \le \pm 0.2\% + .4pF$ for SXM, SX DataSh When stored in constant climate ≤ 70% RH within operating temperature 1.180 range and stabilized at 40% RH 25°C ± 5°C for 24 hours before measurements D Max Min Max Life Test: 125% of rated voltage for 250 hrs at 70°C Ød Soldering Conditions: Not recommended for wave soldering For manual soldering: Color Band Solder Temperature: 270°C Time: 4 seconds maximum Distance from body: .236 inches minimum

DataShe

www.DataSheet4U.com

DataSheet4U.com

Exposure to temperatures > 70°C will result in serious degradation Clean with de-ionized water only. Do not expose to solvents.

WWW.DataSheet4U.com SX Series Polystyrene-Foil / Axial Leads

- - - -

		Inches			Millimeters									
Catalog Number	Cap pF	D Max	L Max	Ød	D Max	L Max	Ød							
33 WVDC @ +40°C 25 WVDC @ +85°C (Blue Color Band)														
		(Blue	e Color	Band)				L						
SXK310	100	.180	.315	.012	4.6	8.0	.3] Г						
SXK312	120	.180	.315	.012	4.6	8.0	.3							
SXK315	150	.180	.315	.012	4.6	8.0	.3							
SXK318	180	.180	.315	.012	4.6	8.0	.3							
SXK322	220	.180	.315	.012	4.6	8.0								
SXK327	270	180	315	.012	4.6	8.0	3							
SXK333	330	.180	.315	.012	4.6	8.0	.3							
SXK339	390	.180	.315	.012	4.6	8.0	.3							
SXK347	470	.180	.315	.012	4.6	8.0	.3							
SXK356	560	.180	.315	.012	4.6	8.0	3							
SXK368	680	.180	.315	.012	4.6	8.0	3							
SXK382	820	180	.315	012	4.6	8.0								
SXK210	1,000	.180	.315	.012	4.6	8.0	.3							
SXK212	1,200	.260	.473	.016	6.6	12.0	.4							
SXK215 SXK218	1,500 1,800	.260 . 260	.473 .473	.016 .016	6.6 6.6	12.0 12.0	.4 .4							
SXK222	2,200	.260	.473	.016	6.6	12.0	· 4 .4							
SXK227	2,200	.260	.473	.016	6.6	12.0	.# .4							
SXK233	3,300	.260	.473	.016	6.6	12.0	.4							
SXK239	3,900	.260	.473	.016	6.6	12.0	.4							
SXK233	4,700	.260	.473	.016	6.6	12.0	.4							
SXK256	5,600	.200	.473	.010	11.9	17.0	.4	201 ⁻¹						
SXK268	6.800	.470	.670	.020	11.9	17.0	5							
SXK282	8.200	.470	.670	.020	11.9	17.0	.5							
SXK110	10.000	.470	.670	.020	11.9	17.0	.5							
SXK112	12,000	.470	.670	.020	11.9	17.0	.5							
SXK115	15,000	.470	.670	.020	11.9	17.0	.5							
SXK118	18.000	470	670	.020	11.9	17.0								
U SXK122	22,000	470	670	.020	11.9	17.0	0050	eer4						
SXK125	25,000	.470	.670	.020	11.9	17.0	.5	2.0						
SXK127	27,000	.470	.670	.020	11.9	17.0	.5	تينا ا						
SXK133	33,000	.709	.867	.020	18.0	22.0	.5							
SXK139	39,000	.709	.867	.020	18.0	22.0	.5							
SXK147	47.000	.709	.867	.020	18.0	22.0	5	1						
SXK156	56,000	.709	.867	.020	18.0	22.0	5							
SXK168	68,000	.709	.867	.020	18.0	22.0	.	[
SXK182	82,000	.709	.867	.020	18.0	22.0	.5							
SXK010	100,000	.709	.867	.020	18.0	22.0	.5							
								1						

			Inches		Millimeters								
Catalog Number	Cap pF	D Max	L Max	Ød	D Max	L Max	Ød						
63 WVDC @ +40°C 50 WVDC @ +85°C (Yellow Color Band)													
SXL482	82	.190	.315	.012	4.8	8.0	.3						
SXL310	100	.190	.315	.012	4.8	8.0	.3						
SXL315	150	.190	.315	.012	4.8	8.0	.3						
SXL318	180	.190	.315	.012	4.8	8.0	.3						
SXL322	220	.190	.315	.012	4.8	8.0	.3						
SXL327 SXL333	270 330	, 190 .190	. 315 .315	.012 .012	4.8	8.0 8.0	.3						
SXL333	470	.190	.315	.012	4.8 4.8	8.0 8.0	.3 .3						
SXL347 SXL356	560	.190	.315	.012	4.8	8.0 8.0	.3						
SXL368	680	.190 190	.315	012	4.8	8.0							
SXL210	1.000	.330	.473	.016	8.4	12.0	1997. 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. – 1997. –						
SXL212	1.200	.330	.473	.016	8.4	12.0	a ni na nina ning i A sa ka						
SXL215	1,500	.330	.473	.016	8.4	12.0	.4						
SXL218	1,800	.330	.473	.016	8.4	12.0	.4						
SXL222	2,200	.330	.473	.016	8.4	12.0	.4						
SXL227	2,700	.330	.473	.016	8,4	12.0	4 - 3						
SXL233	3,300	.330	.473	.016	8.4	12.0	4						
SXL239	3,900	.330	.473	.016	8.4	12.0	4						
SXL247	4,700	.330	.473	.016	8.4	12.0	.4						
SXL256	5,600	.340	.670	.020	8.6	17.0	.5						
SXL268	6,800	.340	.670	.020	8.6	17.0	.5						
SXL282	8,200	.340	.670	.020	8.6	17.0	. 1						
SXL110	10,000	.340	.670	.020	8.6	17.0	.5						
SXL112	12,000	.430	.867	.020	10.9	22.0	5						
SXL115	15,000	.430	.867	.020	10.9	22.0	.5						
SXL116 SXL118	16,000	.430 .430	.867	.020 .020	10.9 10.9	22.0 22.0	.5 .5						
SXL118	18,000 20.000	.430	.867 8 67	.020	10.9	22.0 22.0	.5 5.						
SXL120	20,000	.430 .430	.867	.020	10.9	22.0							
SXL122 SXL125	25,000	.430	.867	.020	10.9 10.9	22.0	.9 .5						

.

et4