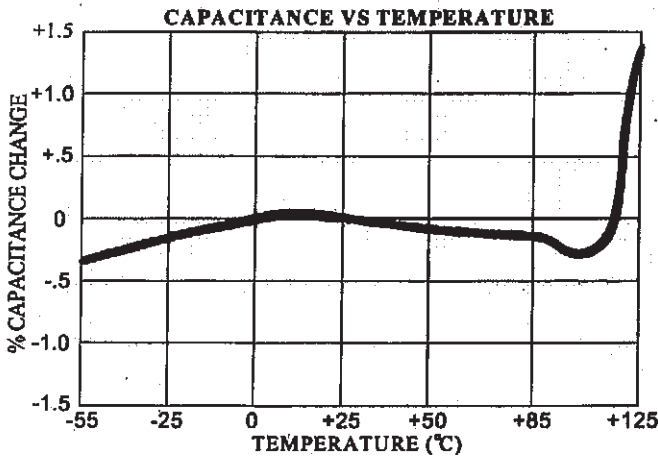


# METALIZED POLYPHENYLENE SULFIDE

## Typical Characteristics



### TEMPERATURE:

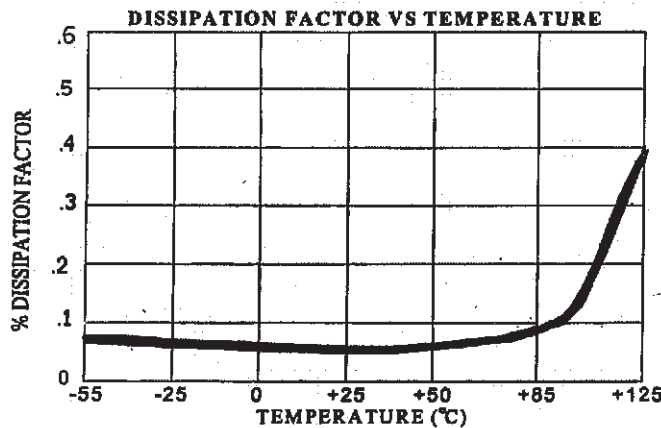
Rated voltage from -55° C to +125° C.

### DIELECTRIC VOLTAGE TEST:

Will withstand the application of 200% rated voltage, at 25° C, for a period of time not to exceed one minute. Current limited to 5 milliamperes.

### DISSIPATION FACTOR:

Shall not exceed 0.3% at 25° C.

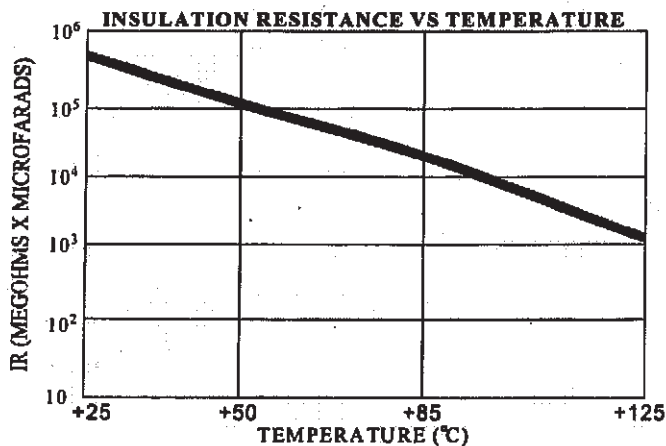


### MEASUREMENT CRITERIA:

Measurement frequency for capacitance and dissipation factor shall be 1000Hz for values under 1mfd; 120Hz for 1mfd and over.

### LIFE TEST:

Will withstand the application of 100% rated voltage at +125° C for 250 hrs. with not more than one failure in twelve permitted.

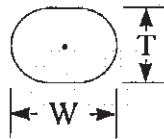
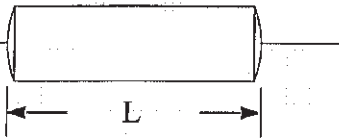


### INSULATION RESISTANCE:

When measured at rated voltage or 500VDC, whichever is less, for a time not exceeding two minutes, units shall meet the minimum values below.

TEMP. (°C)	MEG. X MFDS		MEG. (need not exceed)	
	50 - 100V	200V+	50 - 100V	200V+
+25	25,000	50,000	50,000	100,000
+85	2,500	5,000	5,000	10,000
+125	50	100	100	200

# S11 METALIZED POLYPHENYLENE SULFIDE



Axial Lead

OVAL

Wrap & Fill

LEAD LENGTH = 1.5" MIN.

Lead Gauge	50VDC	100VDC	200VDC	400VDC
24AWG	.001 - 2.0	.001 - 1.0	.001 - .33	.001 - .10
22AWG	3.0 - 8.0	1.2 - 2.0	.39 - 1.0	.12 - .27
20AWG	10.0 - 20.0	3.0 - 20.0	1.2 - 10.0	.33 - 2.0

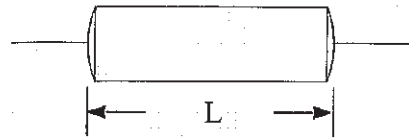
MFD	50 VDC				100 VDC				200 VDC				400 VDC			
	T	W	L	PART NO.	T	W	L	PART NO.	T	W	L	PART NO.	T	W	L	PART NO.
	+05	+05	+05		+05	+05	+05		+05	+05	+05		+05	+05	+05	
.0010	.09	.18	.40	S11A102	.09	.18	.40	S11B102	.09	.18	.40	S11C102	.09	.18	.40	S11E102
.0012	.09	.18	.40	S11A122	.09	.18	.40	S11B122	.09	.18	.40	S11C122	.09	.18	.40	S11E122
.0015	.09	.18	.40	S11A152	.09	.18	.40	S11B152	.09	.18	.40	S11C152	.09	.18	.40	S11E152
.0018	.09	.18	.40	S11A182	.09	.18	.40	S11B182	.09	.18	.40	S11C182	.09	.18	.40	S11E182
.0022	.09	.18	.40	S11A222	.09	.18	.40	S11B222	.09	.18	.40	S11C222	.09	.18	.40	S11E222
.0027	.09	.18	.40	S11A272	.09	.18	.40	S11B272	.09	.18	.40	S11C272	.09	.18	.40	S11E272
.0033	.09	.18	.40	S11A332	.09	.18	.40	S11B332	.09	.18	.40	S11C332	.09	.18	.40	S11E332
.0039	.09	.18	.40	S11A392	.09	.18	.40	S11B392	.09	.18	.40	S11C392	.10	.19	.40	S11E392
.0047	.09	.18	.40	S11A472	.09	.18	.40	S11B472	.09	.18	.40	S11C472	.11	.21	.40	S11E472
.0056	.09	.18	.40	S11A562	.09	.18	.40	S11B562	.09	.18	.40	S11C562	.09	.18	.53	S11E562
.0068	.09	.18	.40	S11A682	.09	.18	.40	S11B682	.09	.18	.40	S11C682	.09	.18	.53	S11E682
.0082	.09	.18	.40	S11A822	.09	.18	.40	S11B822	.09	.18	.40	S11C822	.09	.18	.53	S11E822
.010	.09	.18	.40	S11A103	.09	.18	.40	S11B103	.09	.18	.40	S11C103	.11	.20	.53	S11E103
.012	.09	.18	.40	S11A123	.09	.18	.40	S11B123	.09	.18	.40	S11C123	.12	.22	.53	S11E123
.015	.09	.18	.40	S11A153	.09	.18	.40	S11B153	.09	.18	.40	S11C153	.14	.24	.53	S11E153
.018	.09	.18	.40	S11A183	.09	.18	.40	S11B183	.10	.19	.40	S11C183	.16	.25	.53	S11E183
.022	.09	.18	.40	S11A223	.09	.18	.40	S11B223	.11	.20	.40	S11C223	.18	.28	.53	S11E223
.027					.09	.18	.40	S11B273	.09	.18	.53	S11C273	.21	.30	.53	S11E273
.033									.09	.18	.53	S11C333	.23	.33	.53	S11E333
.039									.10	.20	.53	S11C393	.19	.29	.68	S11E393
.047									.11	.21	.53	S11C473	.21	.31	.68	S11E473
.056									.13	.22	.53	S11C563	.24	.33	.68	S11E563
.068									.15	.24	.53	S11C683	.22	.31	.78	S11E683
.082									.16	.26	.53	S11C823	.25	.34	.78	S11E823
.10									.18	.28	.53	S11C104	.28	.37	.78	S11E104
.12									.21	.30	.53	S11C124	.31	.40	.78	S11E124
.15									.23	.33	.53	S11C154	.27	.36	.95	S11E154
.18									.21	.30	.68	S11C184	.34	.43	.95	S11E184
.22									.23	.33	.68	S11C224	.28	.44	1.17	S11E224
.27									.24	.33	.78	S11C274	.31	.48	1.17	S11E274
.33									.27	.36	.78	S11C334	.35	.52	1.17	S11E334
.39									.30	.40	.78	S11C394	.39	.56	1.17	S11E394
.47									.33	.43	.78	S11C474	.44	.60	1.17	S11E474
.56									.32	.41	.95	S11C564	.49	.65	1.17	S11E564
.68									.25	.42	1.17	S11C684	.47	.63	1.45	S11E684
.82									.28	.45	1.17	S11C824	.46	.63	1.70	S11E824
1.0									.32	.49	1.17	S11C105	.47	.64	1.95	S11E105
1.2									.36	.52	1.17	S11C125	.52	.69	1.95	S11E125
1.5									.41	.58	1.17	S11C155	.59	.76	1.95	S11E155
1.8									.46	.62	1.17	S11C185	.66	.82	1.95	S11E185
2.0									.49	.65	1.17	S11C205	.70	.87	1.95	S11E205
3.0									.47	.63	1.70	S11C305				
4.0									.50	.66	1.95	S11C405				
5.0									.57	.73	1.95	S11C505				
6.0									.63	.79	1.95	S11C605				
8.0									.74	.90	1.95	S11C805				
10.0									.84	1.00	1.95	S11C106				
12.0																
15.0																
18.0																
20.0																

**PRESENTLY  
AVAILABLE IN  
ROUND ONLY  
("S21" SERIES)**

Add letter to the end of the part number to specify the tolerance.

± 20% = M    ± 5% = J    ± 2% = G  
± 10% = K    ± 3% = H    ± 1% = F

# S21 METALIZED POLYPHENYLENE SULFIDE



LEAD LENGTH = 1.5" MIN.



Axial Lead

ROUND

Wrap & Fill

Lead Gauge	50VDC	100VDC	200VDC	400VDC
24AWG	.001 - 2.0	.001 - 1.0	.001 - .33	.001 - .10
22AWG	3.0 - 8.0	1.2 - 3.0	.39 - 1.2	.12 - .27
20AWG	10.0 - 20.0	4.0 - 20.0	1.5 - 10.0	.33 - 2.0

MFD	50 VDC			100 VDC			200 VDC			400 VDC		
	D +.05	L +.05	PART NO.	D +.05	L +.05	PART NO.	D +.05	L +.05	PART NO.	D +.05	L +.05	PART NO.
.0010	.15	.40	S21A102	.15	.40	S21B102	.15	.40	S21C102	.15	.40	S21E102
.0012	.15	.40	S21A122	.15	.40	S21B122	.15	.40	S21C122	.15	.40	S21E122
.0015	.15	.40	S21A152	.15	.40	S21B152	.15	.40	S21C152	.15	.40	S21E152
.0018	.15	.40	S21A182	.15	.40	S21B182	.15	.40	S21C182	.15	.40	S21E182
.0022	.15	.40	S21A222	.15	.40	S21B222	.15	.40	S21C222	.15	.40	S21E222
.0027	.15	.40	S21A272	.15	.40	S21B272	.15	.40	S21C272	.15	.40	S21E272
.0033	.15	.40	S21A332	.15	.40	S21B332	.15	.40	S21C332	.15	.40	S21E332
.0039	.15	.40	S21A392	.15	.40	S21B392	.15	.40	S21C392	.16	.40	S21E392
.0047	.15	.40	S21A472	.15	.40	S21B472	.15	.40	S21C472	.17	.40	S21E472
.0056	.15	.40	S21A562	.15	.40	S21B562	.15	.40	S21C562	.15	.53	S21E562
.0068	.15	.40	S21A682	.15	.40	S21B682	.15	.40	S21C682	.15	.53	S21E682
.0082	.15	.40	S21A822	.15	.40	S21B822	.15	.40	S21C822	.15	.53	S21E822
.010	.15	.40	S21A103	.15	.40	S21B103	.15	.40	S21C103	.17	.53	S21E103
.012	.15	.40	S21A123	.15	.40	S21B123	.15	.40	S21C123	.18	.53	S21E123
.015	.15	.40	S21A153	.15	.40	S21B153	.15	.40	S21C153	.20	.53	S21E153
.018	.15	.40	S21A183	.15	.40	S21B183	.16	.40	S21C183	.22	.53	S21E183
.022	.15	.40	S21A223	.15	.40	S21B223	.17	.40	S21C223	.24	.53	S21E223
.027	.15	.40	S21A273	.15	.40	S21B273	.15	.53	S21C273	.27	.53	S21E273
.033	.15	.40	S21A333	.15	.40	S21B333	.15	.53	S21C333	.29	.53	S21E333
.039	.15	.40	S21A393	.15	.40	S21B393	.16	.53	S21C393	.25	.68	S21E393
.047	.15	.40	S21A473	.15	.40	S21B473	.17	.53	S21C473	.27	.68	S21E473
.056	.15	.40	S21A563	.16	.40	S21B563	.19	.53	S21C563	.30	.68	S21E563
.068	.15	.40	S21A683	.18	.40	S21B683	.21	.53	S21C683	.28	.78	S21E683
.082	.15	.40	S21A823	.15	.53	S21B823	.22	.53	S21C823	.31	.78	S21E823
.10	.15	.40	S21A104	.16	.53	S21B104	.24	.53	S21C104	.34	.78	S21E104
.12	.15	.40	S21A124	.17	.53	S21B124	.27	.53	S21C124	.37	.78	S21E124
.15	.16	.40	S21A154	.19	.53	S21B154	.29	.53	S21C154	.35	.95	S21E154
.18	.15	.53	S21A184	.20	.53	S21B184	.27	.68	S21C184	.40	.95	S21E184
.22	.15	.53	S21A224	.22	.53	S21B224	.29	.68	S21C224	.38	1.17	S21E224
.27	.16	.53	S21A274	.24	.53	S21B274	.30	.78	S21C274	.42	1.17	S21E274
.33	.18	.53	S21A334	.26	.53	S21B334	.33	.78	S21C334	.46	1.17	S21E334
.39	.19	.53	S21A394	.29	.53	S21B394	.36	.78	S21C394	.50	1.17	S21E394
.47	.20	.53	S21A474	.26	.68	S21B474	.39	.78	S21C474	.54	1.17	S21E474
.56	.22	.53	S21A564	.29	.68	S21B564	.38	.95	S21C564	.59	1.17	S21E564
.68	.24	.53	S21A684	.29	.78	S21B684	.36	1.17	S21C684	.57	1.45	S21E684
.82	.26	.53	S21A824	.31	.78	S21B824	.39	1.17	S21C824	.57	1.70	S21E824
1.0	.28	.53	S21A105	.34	.78	S21B105	.43	1.17	S21C105	.57	1.95	S21E105
1.2	.26	.68	S21A125	.37	.78	S21B125	.46	1.17	S21C125	.63	1.95	S21E125
1.5	.28	.68	S21A155	.37	.95	S21B155	.52	1.17	S21C155	.70	1.95	S21E155
1.8	.29	.78	S21A185	.40	.95	S21B185	.56	1.17	S21C185	.76	1.95	S21E185
2.0	.30	.78	S21A205	.38	1.17	S21B205	.59	1.17	S21C205	.81	1.95	S21E205
3.0	.37	.78	S21A305	.45	1.17	S21B305	.57	1.70	S21C305			
4.0	.37	.95	S21A405	.52	1.17	S21B405	.60	1.95	S21C405			
5.0	.36	1.17	S21A505	.58	1.17	S21B505	.67	1.95	S21C505			
6.0	.39	1.17	S21A605	.62	1.17	S21B605	.73	1.95	S21C605			
8.0	.45	1.17	S21A805	.63	1.45	S21B805	.85	1.95	S21C805			
10.0	.50	1.17	S21A106	.64	1.70	S21B106	.94	1.95	S21C106			
12.0	.54	1.17	S21A126	.65	1.95	S21B126						
15.0	.60	1.17	S21A156	.72	1.95	S21B156						
18.0	.58	1.45	S21A186	.78	1.95	S21B186						
20.0	.61	1.45	S21A206	.82	1.95	S21B206						

Add letter to the end of the part number to specify the tolerance.  
 ± 20% = M   ± 5% = J   ± 2% = G  
 ± 10% = K   ± 3% = H   ± 1% = F